44893

# VERIFIED DIRECT TESTIMONY

**OF**

**PAULA GULETSKY**

**SARGENT & LUNDY, L.L.C.**

**ON BEHALF OF**

**INDIANAPOLIS POWER & LIGHT COMPANY**

**INCLUDING IPL WITNESS PMG ATTACHMENT 1**

**VERIFIED DIRECT TESTIMONY OF PAULA GULETSKY**
**ON BEHALF OF**
**INDIANAPOLIS POWER & LIGHT COMPANY**

## I. INTRODUCTION

**Q1. Please state your name, employer and business address.**

A1. My name is Paula Guletsky. I am employed by Sargent & Lundy, L.L.C ("S&L"). My business address is 55 East Monroe Street, Chicago, Illinois, 60603-5780

**Q2. What is your position with S&L?**

A2. I am a Vice President and the S&L Project Director for Indianapolis Power & Light Company ("IPL" or "Company").

**Q3. Please describe your duties as Project Director.**

A3. I am responsible for the implementation and technical integrity of all work for projects under my direction. I direct a project team staffed by a project manager, project engineers, and other technical personnel. I consult with the client and project team in planning and scheduling the project and in developing appropriate cost control systems. I work jointly with the client and project team to set design parameters and operating philosophies which have significant engineering and economic implications. I regularly report to the client regarding project performance and the status of engineering and construction.

**Q4. Please summarize your educational and professional qualifications.**

A4. I hold a Bachelors Degree in Chemical Engineering from University of Kentucky (1981) and am a registered Professional Engineer by the State of Wisconsin.

**Q5. Please summarize your prior work experience.**

A5. I have managed scopes spanning site selection, permit application, conceptual design, detailed design, construction, commissioning, performance testing, and project closeout. Currently, I am directing S&L's activities as Owner's Engineer ("OE") on several air and water environmental assignments. My experience also includes serving as project manager for combined-cycle assignments for Calpine Corporation, Constellation Energy, and Dominion Energy. My most recent assignments were directing S&L's efforts on flue-gas desulfurization ("FGD") retrofit and other multi-pollutant projects, such as Kansas City Power & Light Company's La Cygne Station and IPL's Harding Street and Petersburg stations. Before that, I served as project manager for the Basin Electric Power Cooperative Leland Olds AQCS Retrofit Project, completed in late 2009. My current assignments include both environmental and natural gas generation projects including new generation and retrofit of existing facilities. Prior to joining S&L, I worked for more than 10 years at Alstom Environmental Systems, a major supplier of emission control systems. I have extensive experience in the areas of process and systems design on wet and dry FGD systems, electrostatic precipitators ("ESPs"), and fabric filters ("FFs"). I was the engineering manager for the FGD system and ESP at Louisville Gas and Electric Trimble County Unit 1. I was also the manager and construction coordinator on a Department of Energy Clean Coal Technology II project that involved retrofitting and demonstrating an innovative combined $SO_2/NO_X$ removal process at the Ohio Edison, Niles Station. Additional responsibilities involved coordinating construction activities with six consortium partners located within the U.S. and overseas.

**Q6. Have you previously testified before this Commission?**

A6. Yes. I presented testimony on behalf of IPL in Cause No. 44339, which concerned the Eagle Valley CCGT and IPL's Harding Street Station Units 5 & 6 Refueling project; in Cause No. 44540, which concerns the Company's proposal to refuel Harding Street Station Unit 7; and in Cause No. 44794, which concerns compliance with National Air Quality Standards at Petersburg Station.

**Q7. What is the purpose of your testimony in this proceeding?**

A7. My testimony discusses S&L's study that developed the decommissioning cost estimates for IPL's Eagle Valley, Harding Street, Petersburg, and Georgetown Generating Stations.

**Q8. Are you sponsoring any attachments with your testimony?**

A8. Yes. I am sponsoring the following :

- IPL Witness PMG Attachment 1: Decommissioning Study, Eagle Valley, Harding Street, Petersburg and Georgetown Stations, dated September 30, 2016, Revision 0, Prepared by Sargent & Lundy, L.L.C.

**Q9. Was the attachment identified above prepared or assembled by you or under your direction or supervision?**

A9. Yes. The sponsored attachment was prepared or assembled by me or under my direction or supervision.

**Q10. What is the purpose of the Decommissioning study?**

A10. The objective of S&L's conceptual decommissioning cost study is to present a replacement study of the October 2014[1] study, prepared by S&L, of the gross demolition

[1] Decommissioning Study for Eagle Valley, Harding Street & Petersburg Stations, Sargent & Lundy, L.L.C. October 24, 2014

costs to completely dismantle the Eagle Valley, Harding Street, and Petersburg Generating Stations at the end of their useful generating lives.

**Q11. What is covered by the term "Decommissioning" as used with reference to generating stations?**

A11. It refers to planned dismantling, removing or retiring from service the power generation capability of the power plant.

**Q12. Please describe S&L and its qualifications and experience with preparing Decommissioning cost estimates.**

A12. Sargent & Lundy has extensive decommissioning experience including power plant dismantling, demolition and lay-up for both nuclear and fossil-fired plants. We have provided decommissioning cost estimating, decommissioning study, and related services for 17 clients at more than 40 stations. Our experienced decommissioning staff provides us with the capabilities to assess the scope of work, methodologies and costs to decommission nuclear and fossil-fired power plants.

Our extensive experience and resources in estimating, monitoring, and analyzing costs supplement our project management and engineering experience. We perform between 800 and 1200 cost estimates annually ranging in scope from small plant modification estimates to turnkey estimates for entire plants. Sargent & Lundy has provided conceptual cost estimates for all of its major power plant design projects, as well as for feasibility studies, backfit and betterment work, system generation planning studies, and preliminary financial planning. Our experience and associated resources include:

- An experienced cost estimating staff with education and work backgrounds in the basic engineering disciplines, statistical analysis, cost engineering, construction, and related fields. They are also knowledgeable in cost characteristics and patterns in various design and construction activities.

- A database containing detailed historical cost data for complete power plant projects and a comprehensive record of costs from projects currently underway. The computerized cost model database allows for systematic and consistent use of relationships, such as major systems site criteria, construction and engineering schedules, and economic parameters.

- Estimating procedures and standards for equipment and material costs and erection man-hours that ensure consistency in all cost-related data.

- An extensive library of computer programs to implement project cost estimating, forecasting, monitoring, and analyzing.

- We have been authorized a number of decommissioning assignments in recent years. Scopes have included studies, analyses, engineering, and engineering support.

**Q13. Please describe <u>IPL Witness PMG Attachment 1</u>.**

A13. Attachment 1 summarizes the cost estimates prepared for the complete dismantling of the Eagle Valley, Harding Street, Petersburg and Georgetown Generating Stations that are owned and operated by Indianapolis Power & Light Company, an AES Company.

**Q14. What types of costs are included in a dismantling cost estimate?**

A14. Costs include labor and construction equipment for removal of hazardous materials such as asbestos, chemicals, oils, etc.; removal and demolition of process equipment and materials; scrap value for metal materials; disposal; and capital to restore the land for future use. Costs are also included to close the coal areas and ash ponds in accordance with local, state and federal regulations. Engineering and owner's costs, permitting costs, contingency and escalation have also been included.

**Q15. For purposes of preparing the estimates, what is the duration assumed for dismantlement of each station?**

A15. The dismantling duration for the Georgetown Station is assumed to be less than 1 year. The dismantling duration for the Eagle Valley, Harding Street, and Petersburg Stations is assumed to be approximately 2 years. The ash pond closures may extend an additional 2 years depending on the length of the permitting process.

**Q16. Please provide a brief description of the Eagle Valley Station.**

A16. The Eagle Valley Station is a nominal 364[2] megawatts electrical ("MWe") six-unit coal/oil-fired power plant located at 4040 Blue Bluff Rd, Martinsville, IN, approximately 30 miles south of Indianapolis, IN. Also situated at Eagle Valley is a 2.75 MWe diesel generator, installed in the vicinity of Unit 1. The original construction of the plant began in 1947 for Units 1 and 2. The power plant underwent major expansions to add Unit 3 in 1951, Units 4 and 5 in 1953, and Unit 6 in 1956. In 1989, an $SO_3$ injection system was installed on the roof of Unit 3. The buildings are primarily brick and reinforced concrete

[2] The nominal capacity rating of each station includes all units, in operation or retired.

construction. Units 1 and 2 were retired in 2013, and Units 3, 4, 5, and 6 were retired in 2016. Eagle Valley has recently commissioned a natural gas-fired Combined Cycle Gas Turbine ("CCGT") facility with a nominal capacity of 670[3] MW. The facility will include two combustion turbines with two triple-pressure heat recovery steam generators ("HRSGs") and duct firing and a single steam turbine.

**Q17. Please provide a brief description of the Harding Street Station.**

A17. The Harding Street Generating Station is a nominal 1260[4] MWe thirteen-unit coal/oil/gas-fired power plant located at 3700 South Harding Street, Indianapolis, IN. The Unit capacities and vintage are outlined below:

- Unit 1 (33 MW, 1929), Fuel Oil fired; Retired in 1987
- Unit 2 (33 MW 1929), Fuel Oil fired; Retired in 1987
- Unit 3 (43.8 MW, 1941), Fuel Oil fired; Retired in 2013
- Unit 4 (43.8 MW, 1947), Fuel Oil fired; Retired in 2013
- Unit 5 (113.5 MW, 1958), Coal fired steam generators; Converted to Natural Gas Combustion in 2015
- Unit 6 (113.6 MW, 1961), Coal fired steam generators; Converted to Natural Gas Combustion in 2015

[3] The nominal capacity rating of each station includes all units, in operation or retired.

[4] The nominal capacity rating of each station includes all units, in operation or retired.

- Unit 7 (470.9, 1973), Coal fired steam generators; Converted to Natural Gas Combustion in 2016
- There is one Diesel Generator (2.7 MW, 1967) at the site west of Unit 5.
- Combustion Turbine GT1 (21.4 MW, 1973) is Fuel Oil Fired
- Combustion Turbine GT2 (21.4 MW, 1973) is Fuel Oil Fired
- Combustion Turbine GT3 (21.4 MW, 1973) is Fuel Oil Fired; Retired in 2013
- Combustion Turbine GT4 (80 MW, 1994) is Natural Gas Fired
- Combustion Turbine GT5 (80 MW, 1995) is Natural Gas Fired
- Combustion Turbine GT6 (185 MW, 2002) is Natural Gas Fired

Harding Street Units 1-4 are brick buildings with reinforced concrete construction. The original roofing of built-up asbestos has been removed and replaced with standard asphalt and/or rubber membrane roofing. Units 5 and 6 are generally brick and roofing has also been replaced with non-asbestos containing materials. Unit 7 is a metal-sided building with a built-up gravel roof.

**Q18. Please provide a brief description of the Petersburg Station.**

A18. The Petersburg Generating Station is a nominal 1713[5] MWe four-unit coal-fired power plant located at 6925 N State Road 57, Petersburg, IN. In addition, 2.75 MWe diesel generators were installed at Units 1, 2, and 3 in 1966. The initial Unit 1 (248 MW)

[5] The nominal capacity rating of each station includes all units, in operation or retired.

structure was completed in 1967, with Unit 2 (455 MW) completed in 1969, Unit 3 (535 MW) completed in 1977, and Unit 4 (555 MW) completed in 1986. Units 1 and 2 are uninsulated metal-sided buildings with built-up roofing. Unit 3 is an uninsulated metal-sided building with a built-up tar roof and a small microwave penthouse. Unit 4 is an uninsulated metal-sided building with a metal roof.

**Q19. Please provide a brief description of the Georgetown Station.**

A19. IPL Georgetown Station is a 400[6] MWe natural gas-fired, simple-cycle power generation station consisting of four General Electric MS7001EA DLN1 combustion turbines (75 MW each) utilized for peaking service. Of these four units, IPL owns Unit 1 and Unit 4, but operates all four units. Units 2 and 3 are owned by Indiana Municipal Power Agency ("IMPA").

Georgetown Station is located on the northwest side of the Indianapolis metropolitan area and is located in a mixed commercial, industrial, and residential area. The facility was built as a joint venture between IPL and Detroit Edison ("DTE") and placed in commercial service in 2000. The site was originally designed for a combined cycle facility and equipment layout is such that it could support conversion to a combined cycle plant. When the facility was built, IPL owned Unit 1 and DTE owned Units 2, 3, and 4. In August 2007, IPL purchased Unit 4 from DTE and IMPA purchased Units 2 and 3. IPL personnel continue to operate all four units.

[6] The nominal capacity rating of each station includes all units, in operation or retired.

**Q20. What material information did IPL provide to S&L for use in its cost estimate?**

A20. IPL provided plant reference drawings as listed in Section 8.0 of IPL Witness PMG Attachment 1 and input on owner's costs.

**Q21. Describe the key input parameters and assumptions S&L used in its cost estimate.**

A21. The decommissioning cost estimates include dismantling and removal of all non-essential structures on each site to a nominal level of two feet below grade. S&L developed a labor-hour estimate for disassembling the power plant using standard techniques for wholesale demolition and associated unit cost factors applicable for each installed piece of equipment or structure. These unit cost factors are based on prior dismantling studies which were performed with input from an experienced demolition contractor. Equipment salvage values are not considered in these cost estimates, however, the potential value of scrap materials generated from dismantling the boilers, plant components, and building structural steel is included as a credit against the dismantling cost. Asbestos remediation is included as taken from the October 2014 Study and escalated to 2016 US dollars.

**Q22. Are there any regulations or codes applicable to demolition?**

A22. Yes. International Building Code ("IBC") as adopted by the 2014 Indiana Building Code.

**Q23. Are there any regulations or codes applicable to Ash Pond Closures?**

A23. Yes. Indiana Department of Environmental Management ("IDEM") regulation 329-10-30-2 for Type I Non-Municipal Waste. On February 10, 2016, the U.S. Environmental Protection Agency's coal combustion residuals ("CCR") rule for ash ponds was incorporated into 329-10 through an emergency rule.

**Q24. Have you estimated the costs of monitoring the ground water after the ash ponds are closed?**

A24. Yes. We have included 18 ground water monitoring wells per station for the Eagle Valley, Harding Street, and Petersburg Generating Stations. Owner's costs include personnel to monitor the wells over the course of 30 years.

**Q25. Why was 30 years chosen for Owner's costs?**

A25. Typically a power plant life at inception is considered to be 30 years. This duration was selected to be consistent with the new Eagle Valley CCGT life and the Harding Street Gas Conversion project's plant lives.

**Q26. Why is dismantling after a power plant is taken out of service the appropriate alternative?**

A26. The costs are substantial to guard and maintain the power plant indefinitely after the operational usefulness of power generation is ceased. Dismantling the facility and restoring the land with low maintenance vegetation allows for future use of the property.

**Q27. Is reuse of the site for a power plant a potential use?**

A27. Yes. IPL may choose to use the land that is restored with low maintenance vegetation to develop a future power plant if they want.

**Q28. If the site could be reused, why couldn't the power plant components be reused in repowering?**

A28. New facilities would not likely have the same size capacity, configuration or compatibility with existing components. For example a natural gas combined cycle facility optimal plant design utilizes a modular configuration that is not suited to fit on

the same footprint as a coal burning boiler building. Any upgrades of buildings to meet current codes or renovations to support new plant configurations would be costly. Additionally, upgrading the older vintages of equipment and replacement of electrical and controls infrastructure would also be costly resulting in the unlikely scenario to reuse existing power plant components for repowering.

Furthermore, local, federal and state regulations would require IPL to select current power generation technologies to meet current environmental regulations such as coal to natural gas conversion or natural gas combined cycle. IPL has addressed these questions for each of the three power plant facilities under separate permit submittals.

**Q29. Will any of the materials in the generating stations provide a positive salvage?**

A29. The salvage value of any equipment has not been considered in the cost estimate. We did not anticipate the age and technology of existing equipment to be marketable for reuse. However, scrap value of metal materials has been included.

**Q30. Based on the Decommissioning study, what do you believe are the dismantling costs of the IPL stations, in 2016 dollars?**

A30. S&L's estimated net cost to dismantle the generating stations after crediting the estimated positive scrap value for certain materials in the generating station is shown below:

| Project | Eagle Valley Coal | Eagle Valley CCGT | Harding Street | Petersburg | Georgetown |
|---|---|---|---|---|---|
| **Estimate Number** | **32706H** | **33897C** | **32707I** | **32708H** | **33928C** |
| **Estimate Date** | September 30, 2016 | September 28, 2016 | September 30, 2016 | September 30, 2016 | September 28, 2016 |
| | | | | | |
| **Description** | **Total Cost** | **Total Cost** | **Total Cost** | **Total Cost** | **Total Cost** |
| Demolition | $42,428,113 | $7,714,353 | $68,212,365 | $124,624,663 | $1,605,853 |
| Scrap Credit | <$3,693,801> | <$3,154,709> | <$12,919,048> | <$16,856,111> | <$625,960> |
| **Direct Cost Subtotal** | **$38,734,312** | **$4,559,644** | **$55,293,317** | **$107,768,552** | **$979,893** |
| Indirect Cost | $11,462,773 | $5,187,167 | $22,200,444 | $28,006,770 | $2,215,270 |
| Contingency | $11,516,937 | $3,211,246 | $20,666,372 | $33,897,509 | $889,417 |
| Escalation Cost | $4,479,427 | $1,192,694 | $9,742,219 | $29,664,610 | $416,981 |
| **Total Project Cost** | **$66,193,449** | **$14,150,751** | **$107,902,352** | **$199,337,441** | **$4,501,561** |

**Q31. Please describe the process and methodology that S&L used to develop the cost estimate.**

A31. To produce these estimates, S&L conducted a site walk down of the Harding Street, Petersburg, and Georgetown Stations on June 9-10, 2016 and obtained available site information and data from plant personnel to assist in this effort. An Eagle Valley site visit was not required as S&L contained the necessary information required to develop the cost estimate. S&L utilized the available plant reference data to develop quantities. S&L did not obtain information about any existing or unremediated metal cleaning storage ponds, asbestos inventories, polychlorinated biphenyls ("PCB") inventories, or sludge ponds; therefore any remediation, pond closure, and post-closure costs are assumed in this estimate. S&L has relied on IPL to provide any information on environmental issues, remediation and owner's costs.

An inventory of plant piping, valves, equipment, HVAC ducts, concrete, galleries, cable tray, and other equipment was developed based on review of drawings and data provided by IPL (where available). We used a combination of stochastic and deterministic methods. Deterministic methods were used when information on the quantity and size of equipment (e.g., the number of foundations, equipment, etc.) was available. Stochastic methods were used when quantities information (e.g., fire lines and hydrants, misc. electrical equipment, etc.) was not available.

**Q32. Is the methodology used by S&L reasonable for developing the cost estimate?**

A32. Yes. It is reasonable to estimate quantities from design drawings, plant data, and physical plant walkdowns. It is also reasonable to utilize S&L historical data for similar sized facilities to determine quantities in absence of available specific plant data.

**Q33. Are there any other alternative methodologies that could be used to prepare such estimates?**

A33. Yes. In order to refine the quantities utilized in the estimates, various contractors could be retained to perform detailed field measurements and surveys to calculate the exact amount of asbestos to be remediated, ash currently in the ponds, coal remaining in the coal area, physical dimensions of materials and components to be demolished, and steel and copper materials to be scrapped.

**Q34. Did the cost estimate rely on vendor quotes?**

A34. No.

**Q35. Did you rely on a specific supplier to prepare the capital cost estimates?**

A35. No.

**Q36. Please describe how the demolition costs were calculated.**

A36. Craft labor rates (Craft Hourly Rate) for the cost estimate were calculated as prevailing 2016 Craft Labor rates for Evansville (for the Petersburg Station) and Indianapolis (for the Eagle Valley, Harding Street, and Georgetown Stations), Indiana based on the publication "RS means Labor Rates for the Construction Industry," 2016 edition. Costs have been added to cover social security, workmen's compensation, and federal and state unemployment insurance. Labor rates do not include per-diem or other labor incentives. The resulting craft rates were then used to develop typical crew rates applicable to the task being performed. These crew rates include additional allowances to cover small tools, expendables, show up time, working foreman, general liability, construction equipment and construction site overhead costs. A 40-hour work week is assumed.

**Q37. How was scrap value included in the overall estimate?**

A37. The value of scrap was determined by a 3 month average (April 2016 to June 2016) using Zone 4 for Indiana of the "Scrap Metals Market Watch" (www.americanrecycler.com). The calculation for this average is shown in IPL Witness PMG Attachment 1, Exhibit 6.

**Q38. Please describe how the indirect costs were calculated.**

A38. Installation Contractor General & Administrative expense at 7% of labor, material, consumables, and freight for material costs and Contractor profit at 10% of labor, material, consumables, and freight for material costs.

Freight for material and scrap are included in the material and scrap costs.

Engineering, Procurement & Project services were based on the level of effort required for the scope of work.

Owner's costs were included as an indirect cost line item (Account code 81 in IPL Witness PMG Attachment 1) in the estimate to account for personnel support for the duration of the project as well as personnel to monitor the ground water for 30 years following ash pond closures for Eagle Valley, Harding Street, and Petersburg.

**Q39. Please describe how the contingency costs were calculated.**

A39. Contingency is included at +20% of the total labor, material and subcontract direct and indirect costs to account for the potential risk of increased cost. Contingency is included at -20% of the total scrap value direct cost to account for the potential risk of not obtaining full credit as estimated.

**Q40. Did S&L apply an escalation factor to the cost estimate?**

A40. Yes. Escalation was specifically included in the detailed line item for Owner's cost to monitor ground water for a period of 30 years at 3% per year beginning October 2016. The cost estimate shown in IPL Witness PMG Attachment 1 is an "overnight estimate" (the estimated cost if a contract were entered into today) and escalated at 3% through the expected end of each dismantling period; Eagle Valley – July 2016 through September 2018; Harding Street – July 2016 through March 2019; Petersburg – July 2016 through April 2021; and Georgetown – July 2016 through March 2019.

**Q41. What project costs are not included in the cost estimate shown as IPL Witness PMG Attachment 1?**

A41. Premium labor costs for more than 40 hours per week, any labor incentives, any sales tax for material, and excess liability insurance is excluded.

**Q42. Is the cost estimate of the dismantling costs shown as IPL Witness PMG Attachment 1 reasonable?**

A42. Yes. The estimate was prepared using standard and accepted estimating techniques and the assumptions used in the analysis are reasonable. The cost estimates are consistent with other available data and industry experience.

**Q43. Does this conclude your verified pre-filed direct testimony?**

A43. Yes.

## VERIFICATION

I, Paula M. Guletsky, Vice President for Sargent & Lundy, L.L.C., affirm under penalties of perjury that the foregoing representations are true and correct to the best of my knowledge, information and belief.

Paula M. Guletsky

Dated: December 22, 2016

# DECOMMISSIONING STUDY
## Eagle Valley, Harding Street, Petersburg and Georgetown Stations

Prepared for:
Indianapolis Power & Light
An AES Company

Project No. 10572-097
September 30, 2016
Revision 0

55 East Monroe Street
Chicago, IL 60603-5780 USA

# Issue Summary Page

| Revision Number | Date | Purpose | Prepared By | Reviewed By | Approved By | Pages Affected |
|---|---|---|---|---|---|---|
| 0 | 09/30/16 | Use | B. Andric | G. Amen | D. Buchel | All |
| | | | | | | |

## LEGAL NOTICE

This Deliverable was prepared by Sargent & Lundy, L.L.C. (S&L) expressly for the sole use of Indianapolis Power & Light Company (Client) in accordance with the agreement between S&L and Client. This Deliverable was prepared using the degree of skill and care ordinarily exercised by engineers practicing under similar circumstances. Client acknowledges: (1) S&L prepared this Deliverable subject to the particular scope limitations, budgetary and time constraints, and business objectives of the Client; (2) information and data provided by others may not have been independently verified by S&L; and (3) information and data contained in this Deliverable are time-sensitive and changes in the data, applicable codes, standards, and acceptable engineering practices may invalidate the findings of this Deliverable. Any use or reliance upon this Deliverable by third parties shall be at their sole risk.

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| 5 | Georgetown Decommissioning Conceptual Estimate No. 33928C |
| 6 | Scrap Metal Average Calculation as basis of estimate |

## 1.0 EXECUTIVE SUMMARY

This report presents a summary of the estimated costs for the complete dismantling of the Eagle Valley, Harding Street, Petersburg and Georgetown Generating Stations. These stations are owned and operated by Indianapolis Power & Light Company (IPL), an AES Company. The stations are located in Martinsville, Indianapolis, Petersburg, and Indianapolis Indiana, respectively.

The dismantling estimates include the cost of removing the turbine generators, switchyard, fuel and material handling systems, and all plant equipment and structures. This study replaces the Decommissioning Study developed by Sargent & Lundy (S&L) in October 2014. At the conclusion of the dismantling process the plant areas will be available for alternate use. The total dismantling cost (net of scrap value), are estimated to be $66.2, $14.2, $107.9, $199.3, and $4.5 (millions of 2nd Quarter 2016 pricing levels) for Eagle Valley Coal Facility, Eagle Valley CCGT, Harding Street, Petersburg, and Georgetown respectively.

This study provides the estimated cost associated with the total dismantling of site structures and facilities (except where noted). Partial dismantling is not recommended since it tends to make the overall decommissioning process more costly. However, partial dismantling could be used where the objective is to minimize environmental and safety risks. Complete and prompt dismantling is recommended because it relieves the owner of the liabilities associated with leaving behind partially dismantled, potentially unsafe structures. Leaving unsafe structures in place would also be a violation of International Building Code 2012, Section 3403.

Deferred dismantling (for several years after the cessation of plant operations) can significantly increase the total cost as the owner continues to incur the cost of manning and maintaining the site in protective storage. In addition, at the end of the dormancy period, the station must reactivate those systems necessary to support dismantling operations and/or procure replacement services. Refurbishment activities could involve re-qualifying the cranes and other lifting devices, and reactivating electrical, lighting, and other service systems.

A major disadvantage to delayed dismantling is that station operations personnel will have been re-assigned to other facilities and may not be available at the time of final dismantling. The knowledge of the current operating staff is invaluable in the planning for, and assisting in, plant dismantling activities. Without personnel familiar with station operations, the dismantling program may incur additional costs as it compensates for engineering and planning developed from an incomplete data base. Consequently, dismantling shortly after the permanent cessation of plant operations is not only the basis for the costs presented within this study, but also the action recommended.

## 2.0 INTRODUCTION

The objective of S&L's conceptual decommissioning cost study is to present a replacement study of the October 2014 Study of the gross demolition costs to completely dismantle the Eagle Valley, Harding Street, and Petersburg Generating Stations at the end of their useful generating lives (including gross salvage credits and any other benefits). A notable change from the 2014 includes the addition of the Georgetown Station. Additionally changes include the dismantling cost for the new CCGT at the Eagle Valley Station, the Battery Energy Storage Array (BESA) and Gas Conversion Equipment for Units 5, 6 and 7 for Harding Street, and Mercury and Air Toxics Standard (MATS) Project at Petersburg. This study does not include costs for dismantling any ongoing improvement projects as of this writing. This study is not a detailed engineering document, but a cost estimate prepared in advance of the detailed engineering preparations that will be necessary to carry out the dismantling activities. The costs presented in this study should be considered in light of this qualification. The cost estimate considers the demolition/dismantlement methodology which complies with current OSHA rules and regulations.

## 3.0 STATION DESCRIPTIONS

The Eagle Valley Station is a nominal 364 MWe six-unit coal/oil-fired power plant located at 4040 Blue Bluff Rd, Martinsville, IN, approximately 30 miles south of Indianapolis, IN. Also situated at Eagle Valley is a 2.75 MWe diesel generator, installed in the vicinity of Unit 1. The original construction of the plant began in 1947 for Units 1 and 2. The power plant underwent major expansions to add Unit 3 in 1951, Units 4 and 5 in 1953, and Unit 6 in 1956. In 1989, an S03 injection system was installed on the roof of Unit 3. The buildings are primarily brick and reinforced concrete construction. Units 1 and 2 were retired in 2013 and Units 3, 4, 5, and 6 were retired in 2016.

Eagle Valley has recently commissioned a natural gas-fired Combined Cycle Gas Turbine (CCGT) facility with a nominal capacity of 670 MW The Facility will include two combustion turbines with two triple-pressure HRSGs and duct firing and a single steam turbine.

The Harding Street Generating Station is a nominal 1260 MWe thirteen-unit coal/oil/gas-fired power plant located at 3700 South Harding Street, Indianapolis, IN The Unit capacities and vintage are outlined below:

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- Unit 5 (113.5 MW, 1958),Coal fired steam generators; Converted to Natural Gas Combustion 2015
- Unit 6 (113.6 MW, 1961),Coal fired steam generators; Converted to Natural Gas Combustion 2015
- Unit 7 (470.9, 1973), Coal fired steam generators; Converted to Natural Gas Combustion 2016
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- Combustion Turbine GT6 (185 MW, 2002) is Natural Gas Fired

Harding Street Units 1-4 are brick buildings with reinforced concrete construction. The original roofing of built-up asbestos has been removed and replaced with standard asphalt and/or rubber membrane roofing. Units 5 and 6 are generally brick and roofing has also been replaced with non-asbestos containing materials. Unit 7 is a metal-sided building with a built-up gravel roof.

The Petersburg Generating Station is a nominal 1713 MWe four-unit coal-fired power plant located at 6925 N State Road 57, Petersburg, IN. In addition, 2.75 MWe diesel generators are installed at Units 1, 2, and 3 in 1966. The initial Unit 1 (248 MW) structure was completed in 1967, with Unit 2 (455 MW) completed in 1969, Unit 3 (535 MW) completed in 1977, and Unit 4 (555 MW) completed in 1986. Units 1 and 2 are uninsulated metal-sided buildings with built-up roofing. Unit 3 is an uninsulated metal-sided building with a built-up tar roof and a small microwave penthouse. Unit 4 is an uninsulated metal-sided building with a metal roof.

IPL Georgetown Station is a 400 MW natural gas-fired, simple-cycle power generation station consisting of four General Electric MS7001EA DLN1 combustion turbines (75 MW each) utilized for peaking service. Of these four units, IPL owns Unit 1 and Unit 4, but operates all four units. Units 2 and 3 are owned by Indiana Municipal Power Agency (IMPA).

Georgetown Station is located on the northwest side of the Indianapolis metropolitan area and is located in a mixed commercial, industrial, and residential area. The facility was built as a joint venture between IPL and Detroit Edison (DTE) and placed in commercial service in 2000. The site was originally designed for a combined cycle facility and equipment layout is such that it could support conversion to a combined cycle plant. When the facility was built, IPL owned Unit 1 and DTE owned Units 2, 3, and 4. In August 2007, IPL (AES) purchased Unit 4 from DTE and IMPA purchased Units 2 and 3. IPL personnel continue to operate all four units.

## 4.0 GENERAL APPROACH

These cost estimates incorporate all facilities and projects that have been completed and placed into commercial operation since the October 2014 Decommissioning Study. To produce these estimates, S&L conducted a site walk down of each of three (3) plant facilities on June 9-10, 2016 and obtained available site information and data from plant personnel to assist in this effort. Eagle Valley site visit was not required as S&L contained the necessary information required to develop the cost estimate. S&L did not obtain information about any existing or unremediated metal cleaning storage ponds, asbestos inventories, polychlorinated biphenyls (PCB) inventories, or sludge ponds; therefore any remediation, pond closure, and post-closure costs are assumed in this estimate. S&L has relied on IPL to provide any information on environmental issues or remediation costs.

The decommissioning cost estimates include dismantling and removal of all non-essential structures on each site to a nominal level of two feet below grade. S&L developed a labor-hour estimate for

disassembling the power plant using standard techniques for wholesale demolition and associated unit cost factors applicable for each installed piece of equipment or structure. These unit cost factors are based on prior dismantling studies which were performed with input from an experienced demolition contractor. Equipment salvage values are not considered in these cost estimates, however, the potential value of scrap materials generated from dismantling the boilers, plant components, and building structural steel is included as a credit against the dismantling cost. Asbestos remediation is included as taken from the October 2014 Study and escalated to 2016 US dollars. Contingency is also included in each estimate to account for unpredictable project events. Owner's costs are included that consider the costs associated with development of the demolition project.

This estimate is based on completing dismantling activities in accordance with current federal, state, and local regulations. The plant would have to meet all current applicable regulations that exist at the time of dismantling.

## 5.0 COST ESTIMATE SUMMARY

Conceptual Demolition Cost Estimates for each of the four (4) stations are included in Exhibits 1 through 5. The cost estimate is structured into a code of accounts as identified in Table 5-1.

**Table 5-1**
**Cost Estimate Code of Accounts**

| Account Number | Description |
|---|---|
| 11 | Demolition Costs (including steel, equipment & piping scrap value) |
| 18 | Scrap Value Costs |
| 21 | Civil Work Costs |
| 22 | Concrete Costs |
| 31 | Mechanical Equipment Costs |
| 35 | Piping Costs |
| 41 | Electrical Equipment Costs |
| 42 | Raceway, Cable Tray & Conduit Costs |
| 43 | Cable Costs |
| 71 | Project Indirect |
| 81 | Owner's Costs |
| 91 | Other Direct & Construction Indirect Costs |
| 93 | Indirect Costs |
| 94 | Contingency Costs |
| 96 | Escalation Costs |

The results of the cost estimate for all four (4) stations are provided in Table 5-2 below:

**Table 5-2**
**Cost Estimate Results Summary**

| **Project** | **Eagle Valley Coal** | **Eagle Valley CCGT** | **Harding Street** | **Petersburg** | **Georgetown** |
|---|---|---|---|---|---|
| **Estimate Number** | **32706H** | **33897C** | **32707I** | **32708H** | **33928C** |
| **Estimate Date** | September 30, 2016 | September 28, 2016 | September 30, 2016 | September 30, 2016 | September 28, 2016 |
| **Description** | **Total Cost** | **Total Cost** | **Total Cost** | **Total Cost** | **Total Cost** |
| Demolition | $42,428,113 | $7,714,353 | $68,212,365 | $124,624,663 | $1,605,853 |
| Scrap Credit | <$3,693,801> | <$3,154,709> | <$12,919,048> | <$16,856,111> | <$625,960> |
| **Direct Cost Subtotal** | **$38,734,312** | **$4,559,644** | **$55,293,317** | **$107,768,552** | **$979,893** |
| Indirect Cost | $11,462,773 | $5,187,167 | $22,200,444 | $28,006,770 | $2,215,270 |
| Contingency | $11,516,937 | $3,211,246 | $20,666,372 | $33,897,509 | $889,417 |
| Escalation Cost | $4,479,427 | $1,192,694 | $9,742,219 | $29,664,610 | $416,981 |
| **Total Project Cost** | **$66,193,449** | **$14,150,751** | **$107,902,352** | **$199,337,441** | **$4,501,561** |
| **Total Direct Man-hours *** | **139,816** | **61,101** | **298,961** | **576,079** | **11,624** |
| **Duration** | **< 2 years Demolition ~ 6 months Asbestos < 4 years Ash Pond** | **< 2 years Demolition** | **< 2 years Demolition ~ 6 months Asbestos < 4 years Ash Pond** | **< 2 years Demolition ~ 6 months Asbestos < 4 years Ash Pond** | **< 1 year Demolition** |

* Man-hours do not include subcontractor asbestos removal hours.

## 6.0 TECHNICAL BASIS

### 6.1 EAGLE VALLEY

The Scope of the dismantlement **includes** the complete generating facility Units 1 thru 6 and plant common facilities with the exception of the switchyard and water wells and discharge canal which will be reused.

Common facilities include:

- Railroad track
- Fuel Oil facilities
- Roadways
- Emergency Diesel Generator
- Coal Handling Area
- Intake structures
- Cooling Tower
- The low head dam in the White River
- Ash Pond Closure per IDEM requirements
- Switchyard
- Water Wells on North and South Side of White River

The following are **excluded** from the scope of the conceptual demolition cost estimate.

- The Discharge Canal

The following items are included in the current decommissioning study that was not included in the 2014 study:

- Demolition of the new CCGT facility

Plant drawings utilized as reference are included in Section 8.

### 6.2 HARDING STREET

The scope of dismantlement **includes** the complete Harding Street Plant, Units 1 through 7 and Gas Turbines 1 through 6 and plant common services. Common facilities include:

- Railroad tracks
- Fuel Oil facilities
- Roadways

- Emergency Diesel Generator.
- Coal Handling Facilities
- Ash Pond Closure per IDEM requirements
- Switchyard

The following are **excluded** from the scope of the conceptual demolition cost estimate.

- Gas Lines

The following items are included in the current decommissioning study that was not included in the 2014 study:

- New facilities for the conversion of Units 5, 6, 7 from coal to gas fired
- Addition of a "Battery Energy Storage Array (BESA)" building

The scope of the demolition cost estimate is based on a site walk down and review of the facility by two (2) S&L employees conducted June 9-10, 2016 for development of the demolition cost estimate. Plant drawings utilized as reference are included in Section 8.

## 6.3 PETERSBURG

The scope of dismantlement **includes** the complete Petersburg Plant Units 1 through 4 generating facility and plant common services. Common facilities include:

- Railroad tracks
- Fuel Oil facilities
- Roadways
- Emergency Diesel Generator.
- Coal Handling Facilities
- Ash Pond Closure per IDEM requirements
- Switchyard

The following items are included in the current decommissioning study that was not included in the 2014 study:

- Mercury and Air Toxics Standard (MATS) project which consist of new Baghouses on Units 2 & 3 with new Booster fans and ductwork, Activated Carbon Injection (ACI) on Units 1-4, and a Sodium Bisulfate (SBS) system with associated building and equipment. Also, the Electrostatic Precipitator (ESP) on Unit 2 has been demolished as part of this project.
- New FGD storage building

- Landfill

The scope of the demolition cost estimate is based on a site walk down and review of the facility by two (2) S&L employees conducted June 9-10, 2016 for development of the demolition cost estimate. Plant drawings utilized as reference are included in Section 8.

## 6.4 GEORGETOWN

The scope of dismantlement includes the complete Georgetown generating facility and plant common services.
Major Items include:

- 4 gas-fired simple cycle combustion turbines and associated BOP equipment
- Control/Admin building
- Warehouse building
- Switchyard

The scope of the demolition cost estimate is based on a site walk down and review of the facility by two (2) S&L employees conducted June 9-10, 2016 for development of the demolition cost estimate. Plant drawings utilized as reference are included in Section 8.

# 7.0 COMMERCIAL BASIS

## 7.1 General Information

The Conceptual Demolition Cost Estimates prepared for the IPL Stations are conceptual costs estimated to dismantle each station as described in Section 6 above.

Costs were calculated for (1) demolition of existing plant structures, equipment and associated site restoration costs, (2) scrap value of valuable metals as defined in Section 7.6, and (3) indirects, and (4) contingency.

All units used in the cost estimate are U.S. Standard and all costs are in US Dollars (2nd Quarter 2016 levels). A two (2) year demolition schedule is anticipated not including asbestos removal (to be performed prior to start of demolition work). Asbestos removal is anticipated to have a proximately a six (6) month duration. Ash pond closure duration may be as long as four (4) years from engineering design to complete construction depending on permit agency participation. Georgetown demolition is anticipated to occur in less than one (1) year. Contracting strategy assumed for demolition is multiple lump sum.

Cost estimates were created using the S&L cost model format and the S&L cost database. The estimates developed will include both summaries and details for each type of work performed, and contingencies. An inventory of plant piping, valves, equipment, HVAC ducts, concrete, galleries, cable tray, and other equipment was developed based on review of drawings and data provided by IPL (where available). We used a combination of stochastic and deterministic methods. Deterministic methods were used when information on the quantity and size of equipment (e.g., the number of foundations, equipment, etc.) was available. Stochastic methods were used when quantities information (e.g., fire lines and hydrants, misc.

electrical equipment, etc.) was not available. Unit cost factors for concrete removal, steel removal, cutting costs, and other tasks were developed from labor and material cost information. We estimated the quantities of recoverable metals that can be recovered and sold for scrap.

## 7.2 Quantities/Material Cost

Quantities of pieces of equipment and/or bulk material commodities used in these cost estimates were intended to be reasonable and representative of comparable projects of this type. Material quantities were estimated from the site plot plan and other drawings and data provided to S&L by IPL and Plant Personnel on site visits on June 9-10, 2016. A list of drawings utilized for these estimates are provided in Section 8.

## 7.3 Construction Labor Wages

Craft labor rates (Craft Hourly Rate) for the cost estimate were calculated as prevailing 2016 Craft Labor rates for Evansville (for the Petersburg Station) and Indianapolis (for the Eagle Valley, Harding Street, and Georgetown Stations ), Indiana based on the publication "RS Means Labor Rates for the Construction Industry, 2016 edition. Costs have been added to cover social security, workmen's compensation, federal and state unemployment insurance. The resulting burdened craft rates were then used to develop typical crew rates applicable to the task being performed. These crew rates include additional allowances to cover small tools, expendables, show up time, working foreman, general liability, construction equipment and construction site overhead costs.

## 7.4 Labor Work Schedule and Incentives

The estimate assumed a 5 day, 8 hour work week with no per diem nor labor incentives included.

The estimated duration of the demolition project is two (2) years or less for projects of this size. Asbestos remediation is assumed to have a duration of approximately six (6) months and an ash pond closure duration may be as long as four (4) years from engineering design to complete construction depending on permit agency participation.

## 7.5 Construction Indirects

Allowances were included in the cost estimate as direct costs as noted for the following:

- Freight: Material and scrap freight included in the material and scrap costs.
- Additional Crane Allowance: None included. Cost of cranes and construction machinery are included in the labor wage rates.
- Mobilization and Demobilization: Included in labor wage rates.
- Consumables: Included in material and labor costs.
- Per Diem Costs: Excluded from the estimate.
- Contractor's General and Administrative Costs and Profit.

## 7.6 Scrap Value

The value of scrap was determined by a 3 month average (April 2016 to June of 2016) using Zone 4 for Indiana of the "Scrap Metals Market Watch" (www.americanrecycler.com). The calculation for this average is shown in Exhibit 6.

The values obtained are delivered pieces; allowances were deducted to pay for separation, preparation and shipping to the mills. This resulted in realized prices of:

- Mixed Steel Value @ $109/Ton
- Copper Value @ $3,467/Ton
- Stainless Steel @ $667/Ton
- Aluminum @ $893/Ton
- Hastelloy @ $7,360 per ton

Note: 1 Ton = 2,000 Lbs

All steel is considered to be mixed steel unless otherwise noted.

The scrap price of Harding Street AL6XN Absorber installed on Unit 7 was estimated from other sources as about 3.86 times the price of Stainless Steel scrap or $2,574 per ton

The prices of the Hastelloy lining of the Petersburg Unit 1 and 2 Absorbers were estimated based on the principal ingredient Nickel from the website "www.metalprices.com/p/NickelFreeChart?Weight=LB&size+M&theme=1011". This price is considered conservative and prices will vary from day to day.

## 7.7 Indirect Costs

Allowances were included in the cost estimate as indirect costs as noted for the following:

- Engineering, Procurement and Project Services: Included in the estimate based on level of services required for new work.
- Construction Management Support: Included in labor wage rates.
- Field Engineering: Included in labor wage rates.
- Third Party Construction Management Support: Not Included.
- Owners Cost: Included in the estimate are personnel required to develop the demolition project, manage for the project duration for all four stations and personnel to monitor the ground water following ash pond closures for 30 years for Eagle Valley, Harding Street and Petersburg.

## 7.8 Escalation

All costs are determined in 2nd Quarter 2016 levels. Escalation is included in the cost estimate escalated at 3% through the expected end of each dismantling period; Eagle Valley – July 2016 through

September 2018; Harding Street – July 2016 through March 2019; Petersburg – July 2016 through April 2021; and Georgetown – July 2016 through March 2019.

Escalation was specifically included in the detailed line item for Owner's cost to monitor ground water for a period of 30 years at 3% per year beginning October 2016.

### 7.9 Contingency

Allowances were included in the cost estimate as contingency as noted for the following:

- Scrap Value: Included as a 20.0% reduction in the salvage value resulting in a total net reduction in the salvage value. The contingency assumes a potential drop in salvage value thus increasing the project cost.
- Material: Included as 20.0% of the total material cost.
- Labor: Included as 20.0% of the total labor cost.
- Indirect: Included as 20.0% of the total indirect cost.
- Subcontracted work: Included as 20.0% of the total subcontract cost

### 7.10 Assumptions

The following assumptions apply to the cost estimates.

- All chemicals will be removed by the Owner prior to demolition, from the facilities to be demolished.
- All coal and fuel oil will be consumed or removed prior to demolition.
- All electrical equipment and wiring is de-energized prior to start of dismantlement.
- No extraordinary environmental costs for demolition have been included.
- Eagle Valley, Harding Street and Petersburg: PCB's are removed from site prior to start of demolition.
- All items above grade and to a depth of 2 foot will be demolished. Any other items buried more than 2 foot will remain in place. All foundations down to 2' below grade are removed and buried on site.
- Harding Street, Petersburg and Georgetown: Underground piping, conduit and cable ducts will be abandoned in place.
- Harding Street and Petersburg: Underground piping larger than 4 feet diameter will be filled with sand or slurry and capped at the ends to prevent collapse. Non-metal pipe will be collapsed.
- Eagle Valley: Underground piping larger than 6 inch diameter will be filled with flowable concrete. All other underground piping will be abandoned in place without fill.
- All demolished materials are considered debris, except for organic combustibles and non-embedded metals which have scrap value.

- The basis for salvage estimating is for scrap value only. No resale of equipment or material is included.
- Handling, on-site and off-site disposal of hazardous materials would be performed in compliance with methods approved by Owner.
- Disturbed areas will be buried under 2 feet of topsoil, mulched and seeded with grass – no other landscaping is included.
- All borrow material is assumed to be from nearby offsite sources.
- Debris not suitable for burial is to be disposed of off-site. Assumed distance to final disposal is within a 5 mile haul.
- Asbestos removal is included and it is assumed that it will be removed prior to the start of the remainder of the demolition
- Eagle Valley: Removal of the low head dam in the White River is included in the estimate
- Eagle Valley: The discharge canal is to be left in place because of possible reuse.
- Eagle Valley: All improvements East of Blue Bluff Road are to remain in place.
- Eagle Valley: The existing deep wells on the south of the White River are to remain in place.
- No environmental costs for demolition have been included except for the removal of 5 feet of fill inside the bermed areas around any oil tanks and chemical cleaning ponds. Unless the oil tank area is enclosed in a metal containment then no removal is assumed
- Harding and Petersburg - Catalyst; if any is assumed to be removed and returned to the OEM, by others, before demolition.
- Coal Combustion Residuals (CCR) or Ash Pond Closure is based on the following:
    - Eagle Valley and Harding – Pond geometries are defined by topographic and bathymetric surveys conducted in August 2015 and October 2015.
    - Petersburg – Pond geometries are defined by a 2013 LiDAR topography.
    - The ponds do not have liners (clay or membrane).
    - Inlet/outlet structure removal is undefined.
    - The bottom-of-pond elevations (i.e., bottom-of-stored ash elevations) are defined by historical design drawings and as-builts.
    - CCR quantities in the ponds are taken as the sum of:
        - Volume of CCR based on the 2015 bathymetric survey and the bottom-of-pond elevation, and
        - Volume of dikes from the 2015 topographic and bathymetric surveys.
    - CCR will be dried sufficiently to create a stable vehicle working platform.
    - CCR will be regraded to create surface water runoff drainage slopes.
    - Dike material will be used as additional grading material to create surface water runoff drainage slopes.

- Cover/closure cap is based on Indiana Department of Environmental Management (IDEM) regulation.
- Topsoil source is available on site within 1 mile.
- Clay cover is from off site and available within 10 miles.
- Granular drainage layer is available within 5 miles.
- Eagle Valley and Harding – Quantities for geosynthetic materials are based on the plan area of the final cover area plus a 10% increase to account for waste and for overlapping materials during placement.
- Petersburg – Quantities for geosynthetic materials are based on the plan area of the final cover area.
- Groundwater monitoring is included.

## 8.0 REFERENCES

Drawings utilized in the preparation of this demolition cost estimate are identified in Tables below.

**Table 8-1**

**Harding Street Station Reference Drawings**

| Drawing # | Description |
|---|---|
| 006-07-6-B-D-22B | U7 Floor Equipment Drains & Underfloor Lines Boiler Area Sh1 |
| 006-07-6-B-D-22C | U7 Floor Equipment Drains & Underfloor Lines Turbine Area Sh2 |
| 006-07-6-B-D-29A | Yard Lines Underground Sh1 - U7 Cooling Tower Area |
| 006-07-6-B-D-29B | Yard Lines Underground Sh2 - U7 Stack and Around Boiler |
| 006-07-6-B-D-29C | Yard Lines Underground Sh3 - Catch Basin and Main Office |
| 006-07-6-B-D-29D | Yard Lines Underground Sh4 - Coal Handling |
| 006-07-6-B-D-29F | Yard Lines Underground Sh6 - U7 Cooling Tower Aux and DI Tanks |
| 006-6m6-219 | Old Cribhouse General Arrangement |
| 006-6m6-263 | U5 Cooling Tower Piping Sh1 |
| 006-6m6-264 | U5 Cooling Tower Piping Sh2 |
| 006-6m6-289 | U5 & U6 Basement General Arrangement |
| 006-6m6-290 | U5 & U6 Main Floor General Arrangement |
| 006-6m6-318 | U5 Boiler General Arrangement Section North |
| 006-6m6-349 | U5 & U6 Intake Layout |
| 006-6m6-455 | U6 Boiler General Arrangement Section North |
| 006-6m6-5 | U5 & U6 Cribhouse General Arrangement |
| 006-5m6-117 | Stores & Shops Addition |
| 006-07-6-a-d-20b | U7 North Elevation |
| 006-07-6-a-d-20c | U7 East Elevation |
| 006-07-6-a-d-20d | U7 West Elevation |
| 006-07-6-a-d-20e | U7 South Elevation |
| 006-07-6-a-d-20f | U7 Isometrics |
| 006-07-6-a-d-70fa | FGD Arch Dewatering Equip Enclosure Roof Plan |
| 006-07-6-a-d-70fb | FGD Arch Dewatering Equip Enclosure North Elevation |
| 006-07-6-a-d-70fc | FGD Arch Dewatering Equip Enclosure South Elevation |
| 006-07-6-a-d-70fd | FGD Arch Dewatering Equip Enclosure East Elevation |

| | |
|---|---|
| 006-07-6-a-d-70fe | FGD Arch Dewatering Equip Enclosure West Elevation |
| 006-06-6-m-d-05a | 60 Cooling Tower General Arrangement |
| 006-06-7-0236001 | 60 Precip Upgrade General Arrangement Plan View |
| 006-06-7-0236002 | 60 Precip Upgrade General Arrangement North Elevation |
| 006-06-7-0236003 | 60 Precip Upgrade General Arrangement South Elevation |
| 006-06-7-0236004 | 60 Precip Upgrade General Arrangement East/West Elevation |
| 006-05-7-i91281-4-epf | 50 Precip Upgrade General Arrangement End Elevations |
| 006-05-7-i91282-5-epf | 50 Precip Upgrade General Arrangement Side Elevations |
| 006-05-7-i91283-4-epf | 50 Precip Upgrade General Arrangement Plan View |
| 006-07-6-c-d-70jr | Gypsum Storage Building Plan View |
| 006-07-6-m-d-70gb | Limestone Gypsum Conveyors General Arrangement Plan View |
| 006-07-6-m-d-70gd | Limestone Gypsum Conveyors General Arrangement Elevation View |
| 006-07-6-m-d-70gf | Gypsum Storage Building Plan & Elevation View |
| 006-00-6-y-d-47b | Coal Yard |
| 006-07-6-m-d-06g | U7 Coal Handling Elementary Diagram |
| 006-07-6-a-d-28d | 703 Conveyor & Transfer House details sh1 |
| 006-07-6-a-d-28e | 703 Conveyor & Transfer House details sh2 |
| 006-07-6-a-d-28f | 703 Conveyor & Transfer House details sh3 |
| 006-07-6-c-d-08b | 702 Conveyor & Tunnel Plan & Sections sh1 |
| 006-07-6-c-d-08c | 702 Conveyor & Tunnel Plan & Sections sh2 |
| 006-66-12a-k645031-lbc | 605 Conveyor Details |
| 006-66-12a-ms-900 | Crusher House General Arrangement Plans sh1 |
| 006-66-12a-ms-901 | Crusher House General Arrangement Plans sh2 |
| 006-66-12a-ms-902 | Crusher House General Arrangement Elevations |
| 006-g4-6-a-d-21a | GT4 Building Roof Plan |
| 006-g4-6-a-d-21b | GT4 Building Elevation View |
| 006-g5-6-s-d-21a | GT5 Building Roof Plan |
| 006-g5-6-s-d-21c | GT5 Building Elevation View sh1 |
| 006-g5-6-s-d-21d | GT5 Building Elevation View sh2 |
| 006-g6-4c-a9227002-hki | GT6 Exhaust General Arrangement |

**Table 8-2**

**Petersburg Station Reference Drawings**

| Drawing Number | Title/Description |
|---|---|
| 008-00-6-M-D-62A001 | General Arrangement. Overall Site Plan |
| 008-00-6-Y-D-16a | Overall Main Plant and Misc. Building Layout |
| 008-00-6-Y-D-16b | Overall Main Plant and Misc. Building Layout - View 1 |
| 008-00-6-Y-D-16c | Overall Main Plant and Misc. Building Layout - View 2 |
| 008-01-6-M-D-01A | 220 MW Unit 1, Machine Location Plan, Cross Section |
| 008-01-6-M-D-01C | 220 MW Unit 1, Machine Location Plan, Ground Floor - EL 434'0" |
| 008-01-6-A-D-20N | 220 MW - Unit 1 South Elevation |
| 008-02-6-M-D-01D | 420 MW - Unit 2, Machine Location Plan - Turbine Area, Ground Floor Elevation 434'0" |
| 008-02-6-M-D-01H | 420 MW - Unit 2, Machine Location Plan - BOILER Area, Ground Floor Elevation 434'0" |
| 008-02-6-A-D-20E | 420 MW - Unit 2 North Elevation |
| 008-03-6-A-D-21A | Unit 3 Turbine Area, Ground Floor Pilan, EL 434'0" |
| 008-03-6-A-D-23A | Unit 3 Boiler Area, Ground Floor Pilan, EL 434'0" |
| 008-03-6-A-D-20D | Unit 3, South Elevation |
| 008-04-6-M-D-01U | Unit 4, Machine Location - Turbine Area, Plan - Ground Floor - El 434'0" |
| 008-04-6-M-D-01A | Unit 4, Machine Location - Boiler Area, Plan - Ground Floor El 434'0: |
| 008-04-6-A-D-20D | Unit 4, south Elevation |

**Table 8-3**

**Eagle Valley Station Reference Drawings**

| | |
|---|---|
| 6S7-48 | North & East Elevations - STEEL FRAMING |
| 6S7-49 | South Elevation - Temporary wall - STEEL FRAMING |
| 6S7-51 | Section A-A-West Elevation and Section B-B - STEEL FRAMING |

| | |
|---|---|
| 6S7-56 | South Wall Temporary Framing- SECTION and Details |
| 6S7-57 | Miscellaneous PLANS & SECTION |
| 6S7-13 | Temporary South Wall Plan & Section |
| 6S7-4 | Basement Sub Slab Sections |
| 6S7-5 | Basement Sub Slab Sections Sheet No 1 |
| 6S7-6 | Basement Sub Slab Sections Sheet No 2 |
| 6S7-7 | Basement Floor Concrete Plan |
| 6S7-10 | East Wall Plan and Section |
| 6S7-12 | West Wall Plan & Sections |
| EVY0C-SI-M-0C.00.PL-01 | Eagle Valley CCGT Site Plan |

**Table 8-4**

**Georgetown Station Reference Drawings**

| | |
|---|---|
| 048-GT-6-Y-D-40E | Civil Site Plan |
| Georgetown - GTG | Connection Diagram Georgetown Substation |
| 048-GT-6-A-D-58A | Control Building |
| A201 | Maintenance Building Floor Plan |
| 048-GT-6-C-D-03A | Turbine Support Mat |
| 048-GT-6-C-D-09A | Transformer Area Foundation |
| 048-GT-6-C-D-03F | Inlet Support Foundations |
| 048-GT-6-C-D-10B | Misc. Structures Foundation Plan |

# EXHIBIT 1
# Eagle Valley Station – Coal Facility
# Conceptual Demolition Cost Estimate No. 32706H

# INDIANAPOLIS POWER & LIGHT
# EAGLE VALLEY DECOMMISSIONING
# CONCEPTUAL ESTIMATE

| | |
|---|---|
| **Estimator** | GA |
| **Labor rate table** | 16ININD |
| **Project No.** | 10572-080 |
| **Client** | IPL |
| **Station Name** | EAGLE VALLEY |
| **Unit** | 1 THRU 6 |
| **Estimate Date** | 9/30/16 |
| **Reviewed By** | RCK |
| **Approved By** | MNO |
| **Estimate No.** | 32706H |
| **Estimate Class** | Conceptual |

Estimate No.: 32706H
Project No.: 10572-080
Estimate Date: 9/30/16
Prep/Rev/App: GA/RCK/MNO

**INDIANAPOLIS POWER & LIGHT**
**EAGLE VALLEY DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Description | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|
| ASH | ASH POND | 15,874,466 | | 143,072 | 34,668 | 6,407,926 | 22,425,463 |
| BOP | BOP OUTLYING STRUCTURES | | (17,004) | | 2,472 | 219,865 | 202,861 |
| CH | COAL HANDLING | 61,000 | (82,295) | 1,837,048 | 9,673 | 1,180,841 | 2,996,594 |
| COMMON | COMMNON | 5,873,213 | | 1,011,347 | 6,552 | 744,634 | 7,629,194 |
| CT | COOLING TOWER | 44,016 | (17,702) | 75,106 | 1,878 | 166,034 | 267,454 |
| DAM | LOW HEAD DAM REMOVAL | 678,080 | | | | | 678,080 |
| DW | DEEP WELL | | (8,284) | 18,216 | 775 | 66,137 | 76,069 |
| INTAKE | INTAKE STRUCTURE ABANDONMENT | 20,800 | | 382,452 | 3,533 | 339,992 | 743,244 |
| SW | SWITCHYARD | 261,240 | (39,549) | 81,260 | 2,963 | 279,691 | 582,643 |
| U1 | UNIT 1 | | (440,653) | | 9,492 | 821,754 | 381,101 |
| U2 | UNIT 2 | | (440,653) | | 10,579 | 919,389 | 478,736 |
| U3 | UNIT 3 | | (469,081) | | 8,951 | 756,764 | 287,683 |
| U4 | UNIT 4 | | (645,925) | | 14,763 | 1,274,109 | 628,184 |
| U5 | UNIT 5 | | (653,773) | | 13,192 | 1,134,617 | 480,844 |
| U6 | UNIT 6 | 6,240 | (878,883) | | 20,326 | 1,748,806 | 876,163 |
| | **TOTAL DIRECT** | **22,819,055** | **(3,693,801)** | **3,548,501** | **139,816** | **16,060,557** | **38,734,311** |

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**INDIANAPOLIS POWER & LIGHT**
**EAGLE VALLEY DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

## Estimate Totals

| Description | Amount | Totals | Hours |
|---|---|---|---|
| **Direct Costs:** | | | |
| Labor | 16,060,557 | | 139,816 |
| Material | 3,548,501 | | |
| Subcontract | 22,819,055 | | |
| Scrap Value | (3,693,801) | | |
| | **38,734,312** | **38,734,312** | |
| **Other Direct & Construction Indirect Costs:** | | | |
| 91-1 Scaffolding | | | |
| 91-2 Cost Due To OT 5-10's | | | |
| 91-3 Cost Due To OT 6-10's | | | |
| 91-4 Per Diem | | | |
| 91-5 Consumables | 160,606 | | |
| 91-6 Freight on Material | 177,425 | | |
| 91-7 Freight on Scrap | | | |
| 91-8 Sales Tax | | | |
| 91-9 Contractors G&A | 1,396,296 | | |
| 91-10 Contractors Profit | 1,994,709 | | |
| | **3,729,036** | **42,463,348** | |
| **Indirect Costs:** | | | |
| 93-1 Engineering Services | | | |
| 93-2 CM Support | | | |
| 93-3 Start-Up/Commissioning | | | |
| 93-4 Start-Up/Spare Parts | | | |
| 93-5 Excess Liability Insur. | | | |
| 93-6 Sales Tax On Indirects | | | |
| 93-7 Owners Cost | 7,733,737 | | |
| 93-8 EPC Fee | | | |
| | **7,733,737** | **50,197,085** | |
| **Contingency:** | | | |
| 94-1 Contingency on Material | 871,867 | | |
| 94-2 Contingency on Labor | 3,795,752 | | |
| 94-3 Contingency on Sub. | 4,563,811 | | |
| 94-4 Contingency on Scrap | 738,760 | | |
| 94-5 Contingency on Indirect | 1,546,747 | | |
| | **11,516,937** | **61,714,022** | |
| **Escalation:** | | | |
| 96-1 Escalation on Material | 346,515 | | |
| 96-2 Escalation on Labor | 1,508,586 | | |
| 96-3 Escalation on Subcontract | 1,813,844 | | |
| 96-4 Escalation on Scrap | 195,742 | | |
| 96-5 Escalation on Indirects | 614,740 | | |
| | **4,479,427** | **66,193,449** | |
| 98 Interest During Constr | | | |
| | | **66,193,449** | |
| ***Total*** | | ***66,193,449*** | |

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**INDIANAPOLIS POWER & LIGHT**
**EAGLE VALLEY DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASH | | | ASH POND | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.99.00 | DEMOLITION, MISCELLANEOUS | | | | | | | | | |
| | | | DEMOLISH TEMPORARY WATER TREATMENT CONCRETE PAD, PIPING AND ELECTRICAL FACILTIES | | 1.00 LS | 31,200 | - | | | 106.72 /MH | | 31,200 |
| | | | DEMOLITION, MISCELLANEOUS | | | 31,200 | | | | | | 31,200 |
| | | | DEMOLITION | | | 31,200 | | | | | | 31,200 |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.20.00 | BACKFILL | | | | | | | | | |
| | | | SAND LAYER, PLACE AND COMPACT, 6 IN DEEP | | 65,000.00 CY | 1,797,250 | - | 0 | | /MH | | 1,797,250 |
| | | | CLAY LAYER, PLACE AND COMPACT, 24 IN DEEP | | 259,000.00 CY | 6,837,600 | - | 0 | | /MH | | 6,837,600 |
| | | | TOPSOIL LAYER, PLACE AND COMPACT, 6 IN DEEP | | 64,667.00 CY | 1,866,290 | - | 0 | | /MH | | 1,866,290 |
| | | | BACKFILL | | | 10,501,140 | | | | | | 10,501,140 |
| | | 21.45.00 | GRADING | | | | | | | | | |
| | | | DOZER PUSH | REGRADE AND COMPACT EXISTING ASH | 334,800.00 CY | | - | | 12,890 | 192.84 /MH | 2,485,669 | 2,485,669 |
| | | | SCRAPERS | REGRADE AND COMPACT EXISTING ASH | 334,800.00 CY | - | - | | 12,890 | 192.84 /MH | 2,485,669 | 2,485,669 |
| | | | ARTIC TRUCKS | REGRADE AND COMPACT EXISTING ASH | 167,400.00 CY | - | - | | 6,445 | 192.84 /MH | 1,242,835 | 1,242,835 |
| | | | GRADING | | | | | | 32,225 | | 6,214,173 | 6,214,173 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | SEED, FERTILIZE & MULCH | | 80.00 AC | 144,000 | - | | | /MH | | 144,000 |
| | | | LANDSCAPING | | | 144,000 | | | | | | 144,000 |
| | | 21.55.00 | POND, CONTAINMENT COVER | | | | | | | | | |
| | | | GEOMEMBRANE, LLDPE 40 MIL THK | | 427,000.00 SY | 1,708,000 | - | 0 | | 78.54 /MH | | 1,708,000 |
| | | | GEOTEXTILE, 12 OZ/SY | | 427,000.00 SY | 854,000 | - | | | 78.54 /MH | | 854,000 |
| | | | POND, CONTAINMENT COVER | | | 2,562,000 | | | | | | 2,562,000 |
| | | 21.75.00 | WELL | | | | | | | | | |
| | | | GROUNDWATER MONITORING WELL | | 18.00 EA | 56,160 | - | | | /MH | | 56,160 |
| | | | WELL | | | 56,160 | | | | | | 56,160 |
| | | 21.99.00 | CIVIL WORK, MISCELLANEOUS | | | | | | | | | |
| | | | DEWATERING | ASH PONDS | 1.00 EA | - | - | 31,200 | 1,000 | 71.93 /MH | 71,930 | 103,130 |
| | | | CIVIL WORK, MISCELLANEOUS | | | | | 31,200 | 1,000 | | 71,930 | 103,130 |
| | | | CIVIL WORK | | | 13,263,300 | | 31,200 | 33,225 | | 6,286,103 | 19,580,602 |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | MAT FOUNDATION LESS THAN 5FT THICK, 4500 PSI | 80' X 100' X 1.5' THK CONCRETE SLAB FOR WATER TREATMENT EQUIPMENT | 444.44 CY | - | - | 55,556 | 556 | 79.86 /MH | 44,367 | 99,922 |
| | | | CONCRETE | | | | | 55,556 | 556 | | 44,367 | 99,922 |
| | | 22.17.00 | FORMWORK | | | | | | | | | |
| | | | BUILT UP INSTALL & STRIP | 80' X 100' X 1.5' THK CONCRETE SLAB FOR WATER TREATMENT EQUIPMENT | 540.00 SF | - | - | 1,350 | 108 | 103.36 /MH | 11,163 | 12,513 |
| | | | FORMWORK | | | | | 1,350 | 108 | | 11,163 | 12,513 |
| | | 22.25.00 | REINFORCING | | | | | | | | | |
| | | | UNCOATED A615 GR60 | 80' X 100' X 1.5' THK CONCRETE SLAB FOR WATER TREATMENT EQUIPMENT | 33.33 TN | - | - | 34,166 | 600 | 80.49 /MH | 48,294 | 82,460 |
| | | | REINFORCING | | | | | 34,166 | 600 | | 48,294 | 82,460 |
| | | | CONCRETE | | | | | 91,072 | 1,264 | | 103,823 | 194,895 |
| | 31.00.00 | | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | 31.93.00 | WATER TREATING | | | | | | | | | |
| | | | MOBILIZATION / DEMOBILIZATION | VENDOR TO UNLOAD AND SETUP ALL VENDOR SUPPLIED EQUIPMENT | 1.00 LS | 260,000 | - | - | | 87.84 /MH | | 260,000 |
| | | | CLARIFICATION, ULTRA FILTRATION, DEWATERING, AND OPERATION MONTHLY RENTAL COST INCLUDES: | MONTHLY RENTAL INCLUDING STAFF | 6.00 MO | 1,248,000 | - | - | | 87.84 /MH | | 1,248,000 |
| | | | EQUALIZATION / MIX TANK | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | COAGULANT FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | POLYMER FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | ACTIFLOW AQUAMOVE MOBILE CLARIFIER TRAILER | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | ORGANO-SULFIDE FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | CLARIFIED WATER MIX / FRAC TANK(S) | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | UF FEED PUMPS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |

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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 31.93.00 | WATER TREATING | | | | | | | | | |
| | | | UF FEED TRAILER | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | SLUDGE COLLECTION / THICKENER TANK | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | DEWATERING POLYMER FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | SLUDGE RECYCLE PUMPS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | FILTER PRESS FEED PUMPS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | FILTER PRESS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | VEOLIA STAFF, 1 SHIFT PER DAY, WITH AUTOMATIC OPERATION | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | WATER TREATING | | | 1,508,000 | | | | | | 1,508,000 |
| | | | MECHANICAL EQUIPMENT | | | 1,508,000 | | | | | | 1,508,000 |
| | 35.00.00 | | PIPING | | | | | | | | | |
| | | 35.99.00 | MISCELLANEOUS | | | | | | | | | |
| | | | WATER TREATMENT SYSTEM INLET/OUTLET PIPING, DEWATERING PUMPS | | 1.00 LS | 20,800 | - | | | 100.77 /MH | | 20,800 |
| | | | INLET WATER TO W.T. SYSTEM AND POTABLE WATER FOR POLYMER MAKEDOWN AND SAFETY SHOWER), SAFETY SHOWER, SLUDGE ROLL OFF BOXES | | 1.00 LS | 26,000 | - | | | 100.77 /MH | | 26,000 |
| | | | MISCELLANEOUS | | | 46,800 | | | | | | 46,800 |
| | | | PIPING | | | 46,800 | | | | | | 46,800 |
| | 41.00.00 | | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | 41.99.00 | ELECTRICAL EQUIPMENT, MISCELLANEOUS | | | | | | | | | |
| | | | DIESEL POWERED 250KW GENERATOR | POWER SUPPLY FOR WATER TREATMENT EQUIPMENT | 60.00 DAY | 6,240 | - | | | 83.40 /MH | | 6,240 |
| | | | MISC ELECTRICAL EQUIPMENT AND LABOR | POWER SUPPLY FOR WATER TREATMENT EQUIPMENT | 1.00 EA | | - | 20,800 | 180 | 100.00 /MH | 18,000 | 38,800 |
| | | | ELECTRICAL EQUIPMENT, MISCELLANEOUS | | | 6,240 | | 20,800 | 180 | | 18,000 | 45,040 |
| | | | ELECTRICAL EQUIPMENT | | | 6,240 | | 20,800 | 180 | | 18,000 | 45,040 |
| | 71.00.00 | | PROJECT INDIRECT | | | | | | | | | |
| | | 71.27.00 | FREIGHT | | | | | | | | | |
| | | | FREIGHT FOR WATER TREATMENT EQUIPMENT | NOT INCLUDED IN VENDORS COST | 1.00 LS | 3,120 | - | | | /MH | | 3,120 |
| | | | FREIGHT | | | 3,120 | | | | | | 3,120 |
| | | 71.41.00 | PERMIT | | | | | | | | | |
| | | | PERMIT COST | | 1.00 LS | 156,000 | - | | | /MH | | 156,000 |
| | | | PERMIT | | | 156,000 | | | | | | 156,000 |
| | | 71.99.00 | PROJECT INDIRECT, USER DEFINED | | | | | | | | | |
| | | | MONTHLY OPERATION & MAINTENANCE COST FOR WATER TREATMENT SYSTEM | CHEMICALS, CONSUMABLE, POWER, DISPOSAL, SPARE PARTS | 6.00 MO | 174,720 | - | | | /MH | | 174,720 |
| | | | PROJECT INDIRECT, USER DEFINED | | | 174,720 | | | | | | 174,720 |
| | | | PROJECT INDIRECT | | | 333,840 | | | | | | 333,840 |
| | 81.00.00 | | OWNER COST | | | | | | | | | |
| | | 81.99.00 | OWNER COST, MISCELLANEOUS | | | | | | | | | |
| | | | GROUND WATER SAMPLING AND ANALYSIS | FUTURE VALUE OF $14,400/YR, 30YR, @3%/YR | 1.00 LS | 685,086 | - | | | /MH | | 685,086 |
| | | | OWNER COST, MISCELLANEOUS | | | 685,086 | | | | | | 685,086 |
| | | | OWNER COST | | | 685,086 | | | | | | 685,086 |
| | | | **ASH ASH POND** | | | **15,874,466** | | **143,072** | **34,668** | | **6,407,926** | **22,425,463** |
| **BOP** | | | **BOP OUTLYING STRUCTURES** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - STORAGE BLDG, 85'X40' | | 126.00 CY | - | - | | 120 | 88.57 /MH | 10,672 | 10,672 |
| | | | CONCRETE FOUNDATION - QUONSET HUT, 100'X45' | | 167.00 CY | - | - | | 160 | 88.57 /MH | 14,144 | 14,144 |
| | | | CONCRETE FOUNDATION - MOBILE EQUIPMENT J2 BLDG, 80'X40' | | 119.00 CY | - | - | | 114 | 88.57 /MH | 10,079 | 10,079 |
| | | | CONCRETE FOUNDATION - BROMINE / CHLORINE HOUSE, 30'X20' , 30'X13' | | 36.00 CY | - | - | | 34 | 88.57 /MH | 3,049 | 3,049 |
| | | | CONCRETE FOUNDATION - ASBESTOS STORAGE BLDG, 10'X8' | | 3.00 CY | - | - | | 3 | 88.57 /MH | 254 | 254 |
| | | | CONCRETE FOUNDATION - OFFICE BLDG, 140'X36' | | 186.00 CY | - | - | | 178 | 88.57 /MH | 15,753 | 15,753 |
| | | | CONCRETE FOUNDATION - OIL AND WATER TANK FDNS | | 105.00 CY | - | - | | 100 | 88.57 /MH | 8,893 | 8,893 |
| | | | CONCRETE FOUNDATION - MISC FOUNDATIONS | | 250.00 CY | - | - | | 239 | 88.57 /MH | 21,174 | 21,174 |
| | | | CONCRETE | | | | | | 949 | | 84,018 | 84,018 |

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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | STORAGE BLDG, 85'X40' | | 54,400.00 CF | - | - | | 218 | 91.16 /MH | 19,836 | 19,836 |
| | | | QUONSET HUT, 100'X45' | | 72,000.00 CF | - | - | | 288 | 91.16 /MH | 26,254 | 26,254 |
| | | | MOBILE EQUIPMENT J2 BLDG, 80'X40' | | 51,200.00 CF | - | - | | 205 | 91.16 /MH | 18,670 | 18,670 |
| | | | BROMINE / CHLORINE HOUSE, 30'X20' , 30'X13' | | 19,080.00 CF | - | - | | 76 | 91.16 /MH | 6,957 | 6,957 |
| | | | ASBESTOS STORAGE BLDG, 10'X8' | | 960.00 CF | - | - | | 4 | 91.16 /MH | 350 | 350 |
| | | | OFFICE BLDG, 122'X41.25' | | 90,585.00 CF | - | - | | 362 | 91.16 /MH | 33,031 | 33,031 |
| | | | ARCHITECTURAL | | | | | | 1,153 | | 105,098 | 105,098 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | OIL TANK 1, 298,000 GALLONS, 36' DIA X 40' TALL | | 30.00 TN | - | - | | 52 | 82.99 /MH | 4,285 | 4,285 |
| | | | OIL TANK 2, 298 ,000 GALLONS, 36' DIA X 40' TALL | | 30.00 TN | - | - | | 52 | 82.99 /MH | 4,285 | 4,285 |
| | | | DI TANK 1, 225,000 GALLON 38' DIA C 27' HIGH | | 25.00 TN | - | - | | 43 | 82.99 /MH | 3,571 | 3,571 |
| | | | DI TANK , 2,380 BBL, 26' DIA | | 15.00 TN | - | - | | 26 | 82.99 /MH | 2,143 | 2,143 |
| | | | 2.7 MW DIESEL GENERATOR SET | | 56.00 TN | - | - | | 96 | 82.99 /MH | 7,999 | 7,999 |
| | | | MECHANICAL EQUIPMENT | | | | | | 269 | | 22,284 | 22,284 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | REMOVE FIRE HYDRANTS - ABANDON UNDERGROUND FP PIPING | | 1.00 LS | - | - | | 102 | 82.99 /MH | 8,465 | 8,465 |
| | | | PIPING | | | | | | 102 | | 8,465 | 8,465 |
| | | | DEMOLITION | | | | | | 2,472 | | 219,865 | 219,865 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | OIL TANK 1, 298 GALLONS, 36' DIA X 40' TALL | | -30.00 TN | - | (3,270) | - | | 79.92 /MH | | (3,270) |
| | | | OIL TANK 2, 298 GALLONS, 36' DIA X 40' TALL | | -30.00 TN | - | (3,270) | - | | 79.92 /MH | | (3,270) |
| | | | DI TANK 1, 225,000 GALLON 38' DIA C 27' HIGH | | -25.00 TN | - | (2,725) | - | | 79.92 /MH | | (2,725) |
| | | | DI TANK , 2,380 BBL, 26' DIA | | -15.00 TN | - | (1,635) | - | | 79.92 /MH | | (1,635) |
| | | | 2.7 MW DIESEL GENERATOR SET | | -56.00 TN | - | (6,104) | - | | 79.92 /MH | | (6,104) |
| | | | MIXED STEEL | | | | (17,004) | | | | | (17,004) |
| | | | SCRAP VALUE | | | | (17,004) | | | | | (17,004) |
| | | | **BOP BOP OUTLYING STRUCTURES** | | | | **(17,004)** | | **2,472** | | **219,865** | **202,861** |
| **CH** | | | **COAL HANDLING** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.21.00 | CIVIL WORK | | | | | | | | | |
| | | | REMOVE RR TRACK, 110 LB / YD RAIL | | 215.00 TF | - | - | | 215 | 116.90 /MH | 25,134 | 25,134 |
| | | | CIVIL WORK | | | | | | 215 | | 25,134 | 25,134 |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION | COAL HANDLING BLDG | 89.00 CY | - | - | | 85 | 88.57 /MH | 7,538 | 7,538 |
| | | | CONCRETE FOUNDATION | UNIT 6, TRACK HOPPER TO CRUSHER HOUSE | 98.00 CY | - | - | | 94 | 88.57 /MH | 8,300 | 8,300 |
| | | | CONCRETE FOUNDATION | UNIT 6 CRUSHER HOUSE | 60.00 CY | - | - | | 57 | 88.57 /MH | 5,082 | 5,082 |
| | | | CONCRETE FOUNDATION | UNIT 6 CRUSHER HOUSE ELECTICAL BLD | 30.00 CY | - | - | | 29 | 88.57 /MH | 2,541 | 2,541 |
| | | | CONCRETE FOUNDATION | TRANSFER HOUSE | 51.00 CY | - | - | | 49 | 88.57 /MH | 4,319 | 4,319 |
| | | | CONCRETE FOUNDATION | EXISTING TRACK HOPPER TO CRUSHER HOUSE | 98.00 CY | - | - | | 94 | 88.57 /MH | 8,300 | 8,300 |
| | | | CONCRETE FOUNDATION | TUNNEL BETWEEN CAR HOPPER & STORAGE PILE | 32.00 CY | - | - | | 31 | 88.57 /MH | 2,710 | 2,710 |
| | | | CONCRETE FOUNDATION | BENT FOUNDATIONS AND TAKE UP PADS | 15.00 CY | - | - | | 14 | 88.57 /MH | 1,270 | 1,270 |
| | | | CONCRETE | | | | | | 452 | | 40,061 | 40,061 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | MASONRY BUILDING | COAL HANDLING BLDG | 38,400.00 CF | - | - | | 154 | 91.16 /MH | 14,002 | 14,002 |
| | | | STEEL & SIDING BUILDING | UNIT 6, TRACK HOPPER SHED | 39,420.00 CF | - | - | | 158 | 91.16 /MH | 14,374 | 14,374 |
| | | | STEEL & SIDING BUILDING | EXISTING, TRACK HOPPER SHED | 39,420.00 CF | - | - | | 158 | 91.16 /MH | 14,374 | 14,374 |
| | | | STEEL & SIDING BUILDING | UNIT 6 CRUSHER HOUSE | 32,400.00 CF | - | - | | 130 | 91.16 /MH | 11,814 | 11,814 |
| | | | STEEL & SIDING BUILDING | EXISTING CRUSHER HOUSE | 24,200.00 CF | - | - | | 97 | 91.16 /MH | 8,824 | 8,824 |
| | | | STEEL & SIDING BUILDING | TRANSFER HOUSE | 22,770.00 CF | - | - | | 91 | 91.16 /MH | 8,303 | 8,303 |
| | | | MASONRY BUILDING | UNIT 6 ELECTRICAL BLDG | 4,894.00 CF | - | - | | 20 | 91.16 /MH | 1,785 | 1,785 |
| | | | ARCHITECTURAL | | | | | | 806 | | 73,476 | 73,476 |
| | | 11.33.00 | MATERIAL HANDLING EQUIPMENT | | | | | | | | | |
| | | | CONVEYORS, TRUSSES | INCLUDES CONVEYOR IN TRACK HOPPER | 568.00 TN | - | - | | 1,448 | 82.99 /MH | 120,203 | 120,203 |
| | | | EQUIPMENT | UNIT 6 CRUSHER HOUSE | 27.00 TN | - | - | | 69 | 82.99 /MH | 5,714 | 5,714 |
| | | | EQUIPMENT | EXISTING CRUSHER HOUSE | 21.00 TN | - | - | | 54 | 82.99 /MH | 4,444 | 4,444 |
| | | | EQUIPMENT | TRANSFER HOUSE | 16.00 TN | - | - | | 41 | 82.99 /MH | 3,386 | 3,386 |

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**INDIANAPOLIS POWER & LIGHT**
**EAGLE VALLEY DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.33.00 | MATERIAL HANDLING EQUIPMENT | | | | | | | | | |
| | | | EQUIPMENT | ELECTRICAL EQUIPMENT | 4.00 TN | - | - | | 10 | 82.99 /MH | 847 | 847 |
| | | | EQUIPMENT | BENTS | 4.00 TN | - | - | | 10 | 82.99 /MH | 847 | 847 |
| | | | EQUIPMENT | TAKE UP | 4.00 TN | - | - | | 10 | 82.99 /MH | 847 | 847 |
| | | | EQUIPMENT | MISC EQUIPMENT IN TRACK HOPPERS & SHEDS | 4.00 TN | - | - | | 10 | 82.99 /MH | 847 | 847 |
| | | | MATERIAL HANDLING EQUIPMENT | | | | | | 1,652 | | 137,133 | 137,133 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | 6 IN DIA, DR 11 | DEMO DEWATERING PIPE | 2,300.00 LF | - | - | | 460 | 106.72 /MH | 49,091 | 49,091 |
| | | | PIPING | | | | | | 460 | | 49,091 | 49,091 |
| | | | DEMOLITION | | | | | | 3,586 | | 324,895 | 324,895 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | STEEL | RR TRACK, 110 LB / YD RAIL | -8.00 TN | - | (872) | - | | 79.92 /MH | | (872) |
| | | | STEEL | COAL CONVEYORS, TRUSSES | -568.00 TN | - | (61,912) | - | | 79.92 /MH | | (61,912) |
| | | | EQUIPMENT | UNIT 6 CRUSHER HOUSE | -27.00 TN | - | (2,943) | - | | 79.92 /MH | | (2,943) |
| | | | EQUIPMENT | EXISTING CRUSHER HOUSE | -21.00 TN | - | (2,289) | - | | 79.92 /MH | | (2,289) |
| | | | EQUIPMENT | TRANSFER HOUSE | -16.00 TN | - | (1,744) | - | | 79.92 /MH | | (1,744) |
| | | | EQUIPMENT | ELECTRICAL EQUIPMENT | -4.00 TN | - | (436) | - | | 79.92 /MH | | (436) |
| | | | EQUIPMENT | BENTS | -4.00 TN | - | (436) | - | | 79.92 /MH | | (436) |
| | | | EQUIPMENT | TAKE UP | -4.00 TN | - | (436) | - | | 79.92 /MH | | (436) |
| | | | STEEL | TRACK HOPPER SHEDS | -40.00 TN | - | (4,360) | - | | 79.92 /MH | | (4,360) |
| | | | STEEL | UNIT 6 CRUSHER HOUSE | -24.00 TN | - | (2,616) | - | | 79.92 /MH | | (2,616) |
| | | | STEEL | EXISTING CRUSHER HOUSE | -18.00 TN | - | (1,962) | - | | 79.92 /MH | | (1,962) |
| | | | STEEL | TRANSFER HOUSE | -17.00 TN | - | (1,853) | - | | 79.92 /MH | | (1,853) |
| | | | EQUIPMENT | MISC EQUIPMENT IN TRACK HOPPERS & SHEDS | -4.00 TN | - | (436) | - | | 79.92 /MH | | (436) |
| | | | MIXED STEEL | | | | (82,295) | | | | | (82,295) |
| | | | SCRAP VALUE | | | | (82,295) | | | | | (82,295) |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.17.00 | EARTHWORK | | | | | | | | | |
| | | | MASS FILL, COMMON EARTH USING DUMP TRUCK | FILL COAL PIT EAST OF THE TRANSMISSION LINE | 83,110.00 CY | - | - | 1,412,870 | 2,909 | 192.84 /MH | 560,943 | 1,973,813 |
| | | | MASS FILL, COMMON EARTH USING DUMP TRUCK | COVER SURROUNDING AREA | 5,750.00 CY | - | - | 97,750 | 201 | 192.84 /MH | 38,809 | 136,559 |
| | | | EARTHWORK | | | | | 1,510,620 | 3,110 | | 599,752 | 2,110,372 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | HYDRO SEED, FERTILIZE & MULCH | COAL PILE AND SURROUNDING AREA | 5.00 AC | 9,000 | - | | | /MH | | 9,000 |
| | | | LANDSCAPING | | | 9,000 | | | | | | 9,000 |
| | | 21.99.00 | CIVIL WORK, MISCELLANEOUS | | | | | | | | | |
| | | | 6 IN DIA, DR 11 | DEWATERING - PUMP WATER FROM COAL PIT TO ASH POND, PUMP DISCHARGE PIPE | 2,300.00 LF | | - | 14,720 | 1,380 | 93.92 /MH | 129,610 | 144,330 |
| | | | PUMPS, HOSES, MISC EQUIPMENT, LABOR | DEWATERING - PUMP WATER FROM COAL PIT TO ASH POND | 1.00 EA | | - | 10,400 | 120 | 71.93 /MH | 8,632 | 19,032 |
| | | | CIVIL WORK, MISCELLANEOUS | | | | | 25,120 | 1,500 | | 138,241 | 163,361 |
| | | | CIVIL WORK | | | 9,000 | | 1,535,740 | 4,610 | | 737,993 | 2,282,733 |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | FLOWABLE FILL, 2000 PSI | UNIT 6 TRACK HOPPER AND TUNNEL | 1,397.00 CY | - | - | 142,494 | 699 | 79.86 /MH | 55,782 | 198,276 |
| | | | FLOWABLE FILL, 2000 PSI | EXISTING TRACK HOPPER AND TUNNEL | 1,397.00 CY | - | - | 142,494 | 699 | 79.86 /MH | 55,782 | 198,276 |
| | | | FLOWABLE FILL, 2000 PSI | TUNNEL BETWEEN CAR HOPPER & STORAGE PILE | 160.00 CY | - | - | 16,320 | 80 | 79.86 /MH | 6,389 | 22,709 |
| | | | CONCRETE | | | | | 301,308 | 1,477 | | 117,953 | 419,261 |
| | | | CONCRETE | | | | | 301,308 | 1,477 | | 117,953 | 419,261 |
| | 71.00.00 | | PROJECT INDIRECT | | | | | | | | | |
| | | 71.41.00 | PERMIT | | | | | | | | | |
| | | | PERMIT COST | | 1.00 LS | 52,000 | - | | | /MH | | 52,000 |
| | | | PERMIT | | | 52,000 | | | | | | 52,000 |
| | | | PROJECT INDIRECT | | | 52,000 | | | | | | 52,000 |
| | | | **CH COAL HANDLING** | | | **61,000** | **(82,295)** | **1,837,048** | **9,673** | | **1,180,841** | **2,996,594** |
| **COMMON** | | | **COMMNON** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |

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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.21.00 | CIVIL WORK | | | | | | | | | |
| | | | PAVEMENT & ROADWAY ASPHALT REMOVAL | | 5,000.00 SY | - | - | | 500 | 116.90 /MH | 58,450 | 58,450 |
| | | | CIVIL WORK | | | | | | 500 | | 58,450 | 58,450 |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - MACHINE SHOP & STORE HOUSE BLDG, 140'X65' | | 388.00 CY | - | - | | 371 | 88.57 /MH | 32,862 | 32,862 |
| | | | CONCRETE | | | | | | 371 | | 32,862 | 32,862 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | MACHINE SHOP & STORE HOUSE BLDG, 140'X65' | | 209,529.00 CF | - | - | | 838 | 91.16 /MH | 76,403 | 76,403 |
| | | | U1 THRU 6 INTAKE BAY ROOF | | 2,940.00 SF | - | - | | 37 | 101.39 /MH | 3,801 | 3,801 |
| | | | U1 THRU 6 INTAKE BAY SIDING | | 2,560.00 SF | - | - | | 13 | 91.16 /MH | 1,190 | 1,190 |
| | | | ARCHITECTURAL | | | | | | 889 | | 81,393 | 81,393 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | LUBE OIL - HAUL, DISPOSAL/RECYCLING, NO CHARGE | STEAM TURBINE | 6,000.00 GAL | | - | | | 106.72 /MH | | |
| | | | LUBE OIL - HAUL, DISPOSAL/RECYCLING, NO CHARGE | MISCELLANEOUS EQUIPMENT | 3,000.00 GAL | | - | | | 106.72 /MH | | |
| | | | FUEL OIL - HAUL, DISPOSAL/RECYCLING, NO CHARGE | STORAGE TANKS | 10,000.00 GAL | | - | | | 106.72 /MH | | |
| | | | FUEL OIL - HAUL, DISPOSAL/RECYCLING, NO CHARGE | FIRE PUMPS | 500.00 GAL | | - | | | 106.72 /MH | | |
| | | | FUEL OIL - HAUL, DISPOSAL/RECYCLING, NO CHARGE | FUEL OIL PIPING | 1,450.00 GAL | | - | | | 106.72 /MH | | |
| | | | FUEL OIL - HAUL, DISPOSAL/RECYCLING, NO CHARGE | DIESEL GENERATOR | 500.00 GAL | | - | | | 106.72 /MH | | |
| | | | BLEACH - DISPOSAL | 200 GAL, 1 TOTE | 1.00 LS | 1,930 | - | | | 106.72 /MH | | 1,930 |
| | | | GLYCOL - DISPOSAL | | 200.00 GAL | 445 | - | | | 106.72 /MH | | 445 |
| | | | ACID - DISPOSAL | | 500.00 GAL | 608 | - | | | 106.72 /MH | | 608 |
| | | | CAUSTIC - DISPOSAL | | 500.00 GAL | 588 | - | | | 106.72 /MH | | 588 |
| | | | BROMIDE - DISPOSAL | | 200.00 GAL | 4,202 | - | | | 106.72 /MH | | 4,202 |
| | | | MISC. CHEMICALS - DISPOSAL | | 500.00 GAL | 36,400 | - | | | 106.72 /MH | | 36,400 |
| | | | TRANSPORTATION FOR NON OIL MATERIALS | | 1.00 LS | 5,720 | - | | | 106.72 /MH | | 5,720 |
| | | | MATERIALS - EMPTY 55 GALLON DRUMS | | 50.00 EA | 4,056 | - | | | 106.72 /MH | | 4,056 |
| | | | LABOR CREW FOR WASTE COLLECTING AND PACKAGING | | 160.00 HR | 51,584 | - | | | 106.72 /MH | | 51,584 |
| | | | WASTE | | | 105,533 | | | | | | 105,533 |
| | | 11.99.00 | DEMOLITION, MISCELLANEOUS | | | | | | | | | |
| | | | ASBESTOS REMOVAL/DISPOSAL ALLOWANCE SUBCONTRACTED | ESCALATED FROM PREVIOUS 2005 DEMO REPORT | 1.00 LS | 4,246,320 | - | | | 106.72 /MH | | 4,246,320 |
| | | | DEMOLITION, MISCELLANEOUS | | | 4,246,320 | | | | | | 4,246,320 |
| | | | DEMOLITION | | | 4,351,853 | | | 1,760 | | 172,705 | 4,524,558 |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.17.00 | EARTHWORK | | | | | | | | | |
| | | | MASS FILL, COMMON EARTH USING DUMP TRUCK | COVER DISTURBED AREA W 2' OF TOPSOIL, 10 AC | 31,000.00 CY | - | - | 527,000 | 1,085 | 192.84 /MH | 209,231 | 736,231 |
| | | | MASS FILL, COMMON EARTH USING DUMP TRUCK | PARTIAL FILL FOR POWER BLOCK BASEMENT, TO FILL VOIDS FROM OTHER DEMOLISHED MATERIALS USED AS FILL | 16,851.00 CY | - | - | 286,467 | 590 | 192.84 /MH | 113,734 | 400,201 |
| | | | EARTHWORK | | | | | 813,467 | 1,675 | | 322,966 | 1,136,433 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | HYDRO SEED, FERTILIZE & MULCH | PLANT AND TANK AREA | 10.00 AC | 18,000 | - | | | /MH | | 18,000 |
| | | | LANDSCAPING | | | 18,000 | | | | | | 18,000 |
| | | | CIVIL WORK | | | 18,000 | | 813,467 | 1,675 | | 322,966 | 1,154,433 |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | FLOWABLE FILL, 2000 PSI | 42" DIA BURIED CIRC WATER PIPE, UNIT 1 | 85.00 CY | - | - | 8,670 | 128 | 79.86 /MH | 10,182 | 18,852 |
| | | | FLOWABLE FILL, 2000 PSI | 42" DIA BURIED CIRC WATER PIPE, UNIT 2 | 92.00 CY | - | - | 9,384 | 138 | 79.86 /MH | 11,021 | 20,405 |
| | | | FLOWABLE FILL, 2000 PSI | 42" DIA BURIED CIRC WATER PIPE, UNIT 3 | 122.00 CY | - | - | 12,444 | 183 | 79.86 /MH | 14,614 | 27,058 |
| | | | FLOWABLE FILL, 2000 PSI | 42" DIA BURIED CIRC WATER PIPE, UNIT 4 | 125.00 CY | - | - | 12,750 | 188 | 79.86 /MH | 14,974 | 27,724 |

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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | FLOWABLE FILL, 2000 PSI | 48" DIA BURIED CIRC WATER PIPE, UNIT 5 | 259.00 CY | - | - | 26,418 | 389 | 79.86 /MH | 31,026 | 57,444 |
| | | | FLOWABLE FILL, 2000 PSI | 54" DIA BURIED CIRC WATER PIPE, UNIT 6 | 521.00 CY | - | - | 53,142 | 782 | 79.86 /MH | 62,411 | 115,553 |
| | | | FLOWABLE FILL, 2000 PSI | 12" DIA WELL WATER PIPE | 76.00 CY | - | - | 7,752 | 152 | 79.86 /MH | 12,139 | 19,891 |
| | | | FLOWABLE FILL, 2000 PSI | 18" DIA STORM WATER PIPE | 131.00 CY | - | - | 13,362 | 262 | 79.86 /MH | 20,923 | 34,285 |
| | | | FLOWABLE FILL, 2000 PSI | 96" DIA DISCHARGE TUNNEL | 465.00 CY | - | - | 47,430 | 698 | 79.86 /MH | 55,702 | 103,132 |
| | | | FLOWABLE FILL, 2000 PSI | 14" DIA ASH SLUICE PIPE | 40.00 CY | - | - | 4,080 | 80 | 79.86 /MH | 6,389 | 10,469 |
| | | | FLOWABLE FILL, 2000 PSI | 9" DIA ASH PIPE | 4.00 CY | - | - | 408 | 20 | 79.86 /MH | 1,597 | 2,005 |
| | | | FLOWABLE FILL, 2000 PSI | 10" DIA FIRE PROTECTION & MISC PIPE | 20.00 CY | - | - | 2,040 | 100 | 79.86 /MH | 7,986 | 10,026 |
| | | | CONCRETE | | | | | 197,880 | 3,118 | | 248,964 | 446,844 |
| | | | CONCRETE | | | | | 197,880 | 3,118 | | 248,964 | 446,844 |
| | 81.00.00 | | OWNER COST | | | | | | | | | |
| | | 81.99.00 | OWNER COST, MISCELLANEOUS | | | | | | | | | |
| | | | IPL STAFF - SAFETY, 1 PERSON | $120/HR FOR 24 MONTHS | 1.00 LS | 501,120 | - | | | /MH | | 501,120 |
| | | | IPL STAFF - ENGINEER, 1 PERSON | $120/HR FOR 24 MONTHS | 1.00 LS | 501,120 | - | | | /MH | | 501,120 |
| | | | IPL STAFF - PROJECT ENGINEER, 1 PERSON | $120/HR FOR 24 MONTHS | 1.00 LS | 501,120 | - | | | /MH | | 501,120 |
| | | | OWNER COST, MISCELLANEOUS | | | 1,503,360 | | | | | | 1,503,360 |
| | | | OWNER COST | | | 1,503,360 | | | | | | 1,503,360 |
| | | | **COMMON COMMNON** | | | **5,873,213** | | **1,011,347** | **6,552** | | **744,634** | **7,629,194** |
| **CT** | | | **COOLING TOWER** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE | COOLING TOWER BASIN WALLS | 48.00 CY | - | - | | 46 | 88.57 /MH | 4,065 | 4,065 |
| | | | CONCRETE | PUMP HOUSE | 38.00 CY | - | - | | 36 | 88.57 /MH | 3,218 | 3,218 |
| | | | CONCRETE | | | | | | 82 | | 7,284 | 7,284 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | PUMP | | 1.00 EA | - | | | 40 | 82.99 /MH | 3,320 | 3,320 |
| | | | COOLING TOWER | | 303,160.00 CF | - | - | | 606 | 91.16 /MH | 55,272 | 55,272 |
| | | | MECHANICAL EQUIPMENT | | | | | | 646 | | 58,592 | 58,592 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | 48 IN PIPE | SUPPLY TO TOWER | 230.00 LF | - | - | | 173 | 82.99 /MH | 14,373 | 14,373 |
| | | | 36 IN PIPE | SUPPLY TO TOWER | 62.00 LF | - | - | | 33 | 82.99 /MH | 2,748 | 2,748 |
| | | | 24 IN PIPE | TOWER PIPING | 326.00 LF | - | - | | 112 | 82.99 /MH | 9,334 | 9,334 |
| | | | 36 IN PIPE | DISCHARGE FROM TOWER | 45.00 LF | - | - | | 24 | 82.99 /MH | 1,994 | 1,994 |
| | | | PIPING | | | | | | 343 | | 28,449 | 28,449 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | DISCONNECT POWER TO PUMP | | 1.00 EA | - | - | | 8 | 100.00 /MH | 800 | 800 |
| | | | REMOVE/SALVAGE TRANSFORMER | | 1.00 EA | - | - | | 24 | 100.00 /MH | 2,400 | 2,400 |
| | | | ELECTRICAL EQUIPMENT | DISCONNECT & REMOVE EXISTING TRANSFORMER (ITEM 6) ALLOWANCE | 1.00 LS | - | - | | 40 | 83.40 /MH | 3,336 | 3,336 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 72 | | 6,536 | 6,536 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | DISPOSE DEBRIS ON SITE | | 1,123.00 CY | | - | | 225 | 89.95 /MH | 20,203 | 20,203 |
| | | | DISPOSE DEMO CONCRETE IN PUMP HOUSE WELL | COST INCL IN CONCRETE DEMO COST | 0.00 CY | | - | | | 89.95 /MH | | |
| | | | WASTE | | | | | | 225 | | 20,203 | 20,203 |
| | | | DEMOLITION | | | | | | 1,368 | | 121,063 | 121,063 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | STEEL | 5 FANS | -30.00 TN | - | (3,270) | - | | 79.92 /MH | | (3,270) |
| | | | STEEL | COOLING TOWER FRAMING | -61.00 TN | - | (6,649) | - | | 79.92 /MH | | (6,649) |
| | | | STEEL | PUMP | -19.00 TN | - | (2,071) | - | | 79.92 /MH | | (2,071) |
| | | | STEEL | 48 IN PIPE | -29.00 TN | - | (3,161) | - | | 79.92 /MH | | (3,161) |
| | | | STEEL | 36 IN PIPE | -7.40 TN | - | (807) | - | | 79.92 /MH | | (807) |
| | | | STEEL | 24 IN PIPE | -16.00 TN | - | (1,744) | - | | 79.92 /MH | | (1,744) |
| | | | MIXED STEEL | | | | (17,702) | | | | | (17,702) |
| | | | SCRAP VALUE | | | | (17,702) | | | | | (17,702) |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.17.00 | EARTHWORK | | | | | | | | | |
| | | | FOUNDATION EXCAVATION, COMMON EARTH USING 1 CY BACKHOE | EXCAVATE AROUND PIPE | 292.00 CY | - | - | | 44 | 89.95 /MH | 3,940 | 3,940 |
| | | | MASS FILL, COMMON EARTH USING DUMP TRUCK | COVER DISTURBED AREA W 2' OF TOPSOIL | 1,274.00 CY | - | - | 21,658 | 45 | 192.84 /MH | 8,599 | 30,257 |

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Sargent & Lundy

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 21.17.00 | EARTHWORK | | | | | | | | | |
| | | | MASS FILL, COMMON EARTH USING DUMP TRUCK | INCL VOID FROM BURIED PIPE REMOVAL | 1,274.00 CY | - | - | 21,658 | 45 | 192.84 /MH | 8,599 | 30,257 |
| | | | EARTHWORK | | | | | 21,658 | 88 | | 12,539 | 34,197 |
| | | 21.41.00 | EROSION AND SEDIMENTATION CONTROL | | | | | | | | | |
| | | | RIP RAP, MACHINE PLACED | RIVER EMBANKMENT STABILIZATION | 267.00 SY | 27,768 | - | | | 73.76 /MH | | 27,768 |
| | | | EROSION AND SEDIMENTATION CONTROL | | | 27,768 | | | | | | 27,768 |
| | | 21.43.00 | FENCEWORK | | | | | | | | | |
| | | | REPAIR FENCE | | 1.00 LS | 15,600 | - | | | 59.49 /MH | | 15,600 |
| | | | FENCEWORK | | | 15,600 | | | | | | 15,600 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | HYDRO SEED, FERTILIZE & MULCH | | 0.36 AC | 648 | - | | | /MH | | 648 |
| | | | LANDSCAPING | | | 648 | | | | | | 648 |
| | | 21.99.00 | CIVIL WORK, MISCELLANEOUS | | | | | | | | | |
| | | | DEWATERING | UNDERGROUND SUPPLY DUCT TO PUMPHOUSE, 6FT DIA X 500LF | 1.00 EA | - | - | | 160 | 71.93 /MH | 11,509 | 11,509 |
| | | | CIVIL WORK, MISCELLANEOUS | | | | | | 160 | | 11,509 | 11,509 |
| | | | CIVIL WORK | | | 44,016 | | 21,658 | 248 | | 24,047 | 89,721 |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | FLOWABLE FILL, 2000 PSI | FILL UNDERGROUND SUPPLY DUCT TO PUMPHOUSE, 6FT DIA X 500LF | 524.00 CY | - | - | 53,448 | 262 | 79.86 /MH | 20,923 | 74,371 |
| | | | CONCRETE | | | | | 53,448 | 262 | | 20,923 | 74,371 |
| | | | CONCRETE | | | | | 53,448 | 262 | | 20,923 | 74,371 |
| | | | **CT COOLING TOWER** | | | **44,016** | **(17,702)** | **75,106** | **1,878** | | **166,034** | **267,454** |
| **DAM** | | | **LOW HEAD DAM REMOVAL** | | | | | | | | | |
| | 10.00.00 | | WHOLE PLANT DEMOLITION | | | | | | | | | |
| | | 10.99.00 | DEMOLITION, MISCELLANEOUS | | | | | | | | | |
| | | | LOW HEAD CONCRETE DAM REMOVAL | COST INCLUDES THE FOLLOWING | 1.00 LS | 678,080 | - | | | 106.72 /MH | | 678,080 |
| | | | CONCRETE REMOVAL | COST INCLUDED ABOVE | LS | | - | | | 106.72 /MH | | |
| | | | SHEET PILE EXTRACTION | COST INCLUDED ABOVE | LS | | - | | | 106.72 /MH | | |
| | | | HAULING AND DISPOSAL OF DEBRIS | COST INCLUDED ABOVE | LS | | - | | | 106.72 /MH | | |
| | | | DAM REMOVAL PERMITS | COST INCLUDED ABOVE | LS | | - | | | 106.72 /MH | | |
| | | | ENGINEERING | COST INCLUDED ABOVE | LS | | - | | | 106.72 /MH | | |
| | | | ALL DIRECT AND INDIRECT CONSTRUCTION COSTS | COST INCLUDED ABOVE | LS | | - | | | 106.72 /MH | | |
| | | | SEDIMENT REMOVAL, DISPOSAL AND, ANALYSIS. ASSUMED THAT ANY SEDIMENT BUILDUP BEHIND THE DAM DOES NOT CONTAIN CONTAMINANTS | NOT INCLUDED | LS | | - | | | 106.72 /MH | | |
| | | | SHORELINE RESTORATION STABILIZATION | NOT INCLUDED | LS | | - | | | 106.72 /MH | | |
| | | | INFRASTUCTURE UPSTREAM AND DOWNSTREAM IMPACTED BY A LOWER WATER LEVEL | NOT INCLUDED | LS | | - | | | 106.72 /MH | | |
| | | | HABITAT RESTORATION | NOT INCLUDED | LS | | - | | | 106.72 /MH | | |
| | | | EROSION MITIGATION PREVENTION | NOT INCLUDED | LS | | - | | | 106.72 /MH | | |
| | | | DEMOLITION, MISCELLANEOUS | | | 678,080 | | | | | | 678,080 |
| | | | WHOLE PLANT DEMOLITION | | | 678,080 | | | | | | 678,080 |
| | | | **DAM LOW HEAD DAM REMOVAL** | | | **678,080** | | | | | | **678,080** |
| **DW** | | | **DEEP WELL** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE | 4 PUMP HOUSE FOUNDATIONS | 152.00 CY | - | - | | 145 | 88.57 /MH | 12,874 | 12,874 |
| | | | CONCRETE | | | | | | 145 | | 12,874 | 12,874 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | PUMP | | 4.00 EA | - | | | 160 | 82.99 /MH | 13,278 | 13,278 |
| | | | MECHANICAL EQUIPMENT | | | | | | 160 | | 13,278 | 13,278 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING | CONNECTING PIPE ALLOWANCE | 4.00 EA | - | - | | 240 | 82.99 /MH | 19,918 | 19,918 |
| | | | PIPING | | | | | | 240 | | 19,918 | 19,918 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | DISCONNECT ELECTRICAL POWER | | 4.00 EA | - | - | | 64 | 100.00 /MH | 6,400 | 6,400 |

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**INDIANAPOLIS POWER & LIGHT**
**EAGLE VALLEY DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CABLE | | | | | | 64 | | 6,400 | 6,400 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | DISPOSE DEMO CONCRETE IN PUMP HOUSE WELL | COST INCL IN CONCRETE DEMO COST | 0.00 CY | | - | | | 89.95 /MH | | |
| | | | DEMOLITION | | | | | | 609 | | 52,470 | 52,470 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | STEEL | 4 PUMPS | -76.00 TN | - | (8,284) | - | | 79.92 /MH | | (8,284) |
| | | | MIXED STEEL | | | | (8,284) | | | | | (8,284) |
| | | | SCRAP VALUE | | | | (8,284) | | | | | (8,284) |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.17.00 | EARTHWORK | | | | | | | | | |
| | | | MASS FILL, COMMON EARTH USING DUMP TRUCK | COVER DISTURBED AREA TOPSOIL | 64.00 CY | - | - | 1,088 | 51 | 89.95 /MH | 4,605 | 5,693 |
| | | | EARTHWORK | | | | | 1,088 | 51 | | 4,605 | 5,693 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | HYDRO SEED, FERTILIZE & MULCH | PLANT AND TANK AREA | 1.00 LS | | - | 400 | 32 | 78.54 /MH | 2,513 | 2,913 |
| | | | LANDSCAPING | | | | | 400 | 32 | | 2,513 | 2,913 |
| | | | CIVIL WORK | | | | | 1,488 | 83 | | 7,119 | 8,607 |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | FLOWABLE FILL, 2000 PSI | 4 PUMP WELLS, 9' X 10' X 22' DEEP | 164.00 CY | - | - | 16,728 | 82 | 79.86 /MH | 6,549 | 23,277 |
| | | | CONCRETE | | | | | 16,728 | 82 | | 6,549 | 23,277 |
| | | | CONCRETE | | | | | 16,728 | 82 | | 6,549 | 23,277 |
| | | | **DW DEEP WELL** | | | | **(8,284)** | **18,216** | **775** | | **66,137** | **76,069** |
| **INTAKE** | | | **INTAKE STRUCTURE ABANDONMENT** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.99.00 | DEMOLITION, MISCELLANEOUS | | | | | | | | | |
| | | | POSITION STOP GATES AND SLUICE GATES IN CLOSED POSITION | | 24.00 EA | - | - | | 53 | 59.49 /MH | 3,141 | 3,141 |
| | | | DEMOLITION, MISCELLANEOUS | | | | | | 53 | | 3,141 | 3,141 |
| | | | DEMOLITION | | | | | | 53 | | 3,141 | 3,141 |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.99.00 | CIVIL WORK, MISCELLANEOUS | | | | | | | | | |
| | | | DEWATERING, 12 CELLS | ASSUME WATER LEVEL IS SAME AS DAM ELEVATION | 12.00 EA | - | - | | 288 | 71.93 /MH | 20,716 | 20,716 |
| | | | CIVIL WORK, MISCELLANEOUS | | | | | | 288 | | 20,716 | 20,716 |
| | | | CIVIL WORK | | | | | | 288 | | 20,716 | 20,716 |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | FLOWABLE FILL, 2000 PSI | FILL INTAKE STRUCTURE | 2,777.00 CY | - | - | 283,254 | 1,389 | 79.86 /MH | 110,886 | 394,140 |
| | | | CONCRETE | | | | | 283,254 | 1,389 | | 110,886 | 394,140 |
| | | | CONCRETE | | | | | 283,254 | 1,389 | | 110,886 | 394,140 |
| | 23.00.00 | | STEEL | | | | | | | | | |
| | | 23.25.00 | ROLLED SHAPE | | | | | | | | | |
| | | | 3/8" THICK STEEL PLATE | CLOSURE PLATE TO INTAKE STRUCTURE | 4,509.00 SF | - | - | 99,198 | 1,804 | 113.80 /MH | 205,250 | 304,448 |
| | | | ROLLED SHAPE | | | | | 99,198 | 1,804 | | 205,250 | 304,448 |
| | | | STEEL | | | | | 99,198 | 1,804 | | 205,250 | 304,448 |
| | 71.00.00 | | PROJECT INDIRECT | | | | | | | | | |
| | | 71.41.00 | PERMIT | | | | | | | | | |
| | | | PERMIT COST | | 1.00 LS | 20,800 | - | | | /MH | | 20,800 |
| | | | PERMIT | | | 20,800 | | | | | | 20,800 |
| | | | PROJECT INDIRECT | | | 20,800 | | | | | | 20,800 |
| | | | **INTAKE INTAKE STRUCTURE ABANDONMENT** | | | **20,800** | | **382,452** | **3,533** | | **339,992** | **743,244** |
| **SW** | | | **SWITCHYARD** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE | FOUNDATIONS | 949.00 CY | - | - | | 771 | 88.57 /MH | 68,319 | 68,319 |

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**INDIANAPOLIS POWER & LIGHT**
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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **CONCRETE** | | | | | | **771** | | **68,319** | **68,319** |
| | | **11.23.00** | **STEEL** | | | | | | | | | |
| | | | STRUCTURAL STEEL | | 280.00 TN | - | - | | 242 | 79.92 /MH | 19,325 | 19,325 |
| | | | **STEEL** | | | | | | **242** | | **19,325** | **19,325** |
| | | **11.41.00** | **ELECTRICAL EQUIPMENT** | | | | | | | | | |
| | | | SWITCHYARD POWER TRANSFORMERS | U1 DISCONNECT & DISMANTLE 14.6 MVA, 13.2KV/138KV | 3.00 EA | - | - | | 168 | 76.83 /MH | 12,907 | 12,907 |
| | | | SWITCHYARD POWER TRANSFORMERS | U1 DISCONNECT & DISMANTLE 3.750 / 5 MVA, 13.2KV/2.4KV | 2.00 EA | - | - | | 48 | 76.83 /MH | 3,688 | 3,688 |
| | | | SWITCHYARD POWER TRANSFORMERS | U2 DISCONNECT & DISMANTLE 14.6 MVA, 13.8KV/138KV | 3.00 EA | - | - | | 168 | 76.83 /MH | 12,907 | 12,907 |
| | | | SWITCHYARD POWER TRANSFORMERS | U2 DISCONNECT & DISMANTLE 3.750 / 5 MVA, 13.2KV/2.4KV | 1.00 EA | - | - | | 16 | 76.83 /MH | 1,229 | 1,229 |
| | | | SWITCHYARD POWER TRANSFORMERS | U3 DISCONNECT & DISMANTLE 14.6 MVA, 13.2KV/138KV | 3.00 EA | - | - | | 168 | 76.83 /MH | 12,907 | 12,907 |
| | | | SWITCHYARD POWER TRANSFORMERS | U3 DISCONNECT & DISMANTLE 3.750 / 5 MVA, 13.2KV/2.4KV | 1.00 EA | - | - | | 24 | 76.83 /MH | 1,844 | 1,844 |
| | | | SWITCHYARD POWER TRANSFORMERS | U4 DISCONNECT & DISMANTLE 3.750 / 5 MVA, 13.2KV/2.4KV | 2.00 EA | - | - | | 48 | 76.83 /MH | 3,688 | 3,688 |
| | | | SWITCHYARD POWER TRANSFORMERS | U4 DISCONNECT & DISMANTLE 83.5 MVA, 13.2KV/138KV | 1.00 EA | - | - | | 100 | 76.83 /MH | 7,683 | 7,683 |
| | | | SWITCHYARD POWER TRANSFORMERS | U5 DISCONNECT & DISMANTLE 3.750 / 5.6 MVA, 13.2KV/ 2.4KV | 1.00 EA | - | - | | 24 | 76.83 /MH | 1,844 | 1,844 |
| | | | SWITCHYARD POWER TRANSFORMERS | U5 DISCONNECT & DISMANTLE 83.5 MVA, 13.2KV/138KV | 1.00 EA | - | - | | 100 | 76.83 /MH | 7,683 | 7,683 |
| | | | **ELECTRICAL EQUIPMENT** | | | | | | **864** | | **66,381** | **66,381** |
| | | **11.42.00** | **RACEWAY, CABLE TRAY, & CONDUIT** | | | | | | | | | |
| | | | CABLE TRAY | | 100.00 LF | - | - | | 20 | 106.72 /MH | 2,134 | 2,134 |
| | | | RACEWAY- CABLE TRAY, & CONDUIT | DISCONNECT & REMOVE SWITCH YARD: LIGHTING & POWER AND CONTROL VARIOUS SIZE CONDUIT & ASSOCIATED WIRE | 3,800.00 LF | - | - | | 133 | 106.72 /MH | 14,194 | 14,194 |
| | | | **RACEWAY, CABLE TRAY, & CONDUIT** | | | | | | **153** | | **16,328** | **16,328** |
| | | **11.43.00** | **CABLE** | | | | | | | | | |
| | | | GROUNDING CABLE | | 3,500.00 LF | - | - | | 35 | 82.99 /MH | 2,905 | 2,905 |
| | | | OVERHEAD CONDUCTOR | VARIOUS SIZE BARE CONDUCTOR | 7,500.00 LF | - | - | | 150 | 82.99 /MH | 12,449 | 12,449 |
| | | | CABLE | VARIOUS SIZE CABLES | 6,000.00 LS | - | - | | 72 | 106.72 /MH | 7,684 | 7,684 |
| | | | **CABLE** | | | | | | **257** | | **23,037** | **23,037** |
| | | **11.44.00** | **CONTROL & INSTRUMENTATION** | | | | | | | | | |
| | | | CONTROL & INSTRUMENTATION | DISCONNECT & REMOVE VARIOUS CONDUCTOR CABLES | 12,000.00 LF | - | - | | 84 | 106.72 /MH | 8,964 | 8,964 |
| | | | **CONTROL & INSTRUMENTATION** | | | | | | **84** | | **8,964** | **8,964** |
| | | **11.51.00** | **SUBSTATION, SWITCHYARD & TRANSMISSION LINE** | | | | | | | | | |
| | | | DISCONNECT SWITCHES | DISCONNECT & REMOVE, 138KV SINGLE PHASE DIS. SW | 60.00 EA | - | - | | 30 | 76.83 /MH | 2,305 | 2,305 |
| | | | DISCONNECT SWITCHES | DISCONNECT & REMOVE, 138KV 3PHASE VERTICAL DIS. SW | 5.00 EA | - | - | | 3 | 76.83 /MH | 192 | 192 |
| | | | CIRCUIT BREAKER | DISCONNECT & REMOVE, 138KV SINGLE PHASE DIS. SW | 30.00 EA | - | - | | 15 | 83.40 /MH | 1,251 | 1,251 |
| | | | CONTROL PANEL | DISCONNECT & REMOVE, RELAY & PROTECTION PANELS | 1.00 LT | - | - | | 24 | 80.41 /MH | 1,930 | 1,930 |
| | | | PTs AND CTs | DISCONNECT & REMOVE, RELAY & PROTECTION PANELS | 1.00 LT | - | - | | 24 | 80.41 /MH | 1,930 | 1,930 |
| | | | **SUBSTATION, SWITCHYARD & TRANSMISSION LINE** | | | | | | **96** | | **7,608** | **7,608** |
| | | **11.81.00** | **NON POWER PRODUCING ASSETS** | | | | | | | | | |
| | | | ALUMINUM BUS | DISASSEMBLE & REMOVE ALUMINUM BUS INCLUDING FITTINGS, SUPPORTING HDWR | 5,670.00 LF | - | - | | 28 | 80.41 /MH | 2,280 | 2,280 |
| | | | **NON POWER PRODUCING ASSETS** | | | | | | **28** | | **2,280** | **2,280** |
| | | **11.86.00** | **WASTE** | | | | | | | | | |
| | | | WASTE | WASTE ALLOWANCE | 860.00 CY | - | - | | 301 | 116.90 /MH | 35,187 | 35,187 |

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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | WASTE | | | | | | 301 | | 35,187 | 35,187 |
| | | | DEMOLITION | | | | | | 2,796 | | 247,429 | 247,429 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | STEEL | | -280.00 TN | - | (30,520) | - | | 79.92 /MH | | (30,520) |
| | | | SWITCHES | | -5.00 TN | - | (545) | - | | 79.92 /MH | | (545) |
| | | | TRANSFORMERS - NO SCRAP VALUE | | 0.00 TN | - | | - | | 79.92 /MH | | |
| | | | MIXED STEEL | | | | (31,065) | | | | | (31,065) |
| | | 18.50.00 | ALUMINUM | | | | | | | | | |
| | | | ALUMINUM BUS | | -4.50 TN | - | (4,018) | - | | - | - | (4,018) |
| | | | GROUND CABLE - ALUMINUM | | -5.00 TN | - | (4,465) | - | | - | - | (4,465) |
| | | | ALUMINUM | | | | (8,483) | | | | | (8,483) |
| | | | SCRAP VALUE | | | | (39,549) | | | | | (39,549) |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.17.00 | EARTHWORK | | | | | | | | | |
| | | | MASS FILL, COMMON EARTH USING DUMP TRUCK | COVER DISTURBED AREA W 2' OF TOPSOIL | 4,780.00 CY | - | - | 81,260 | 167 | 192.84 /MH | 32,262 | 113,522 |
| | | | EARTHWORK | | | | | 81,260 | 167 | | 32,262 | 113,522 |
| | | 21.19.00 | DISPOSAL | | | | | | | | | |
| | | | DISPOSAL AND HAULING OF CONTAMINATED SOIL | EXCAVATE 1' DEEP OF SOIL AND HAUL TO TWIN BRIDGES DISPOSAL SITE | 4,200.00 CY | 218,400 | - | | | 89.95 /MH | | 218,400 |
| | | | DISPOSAL | | | 218,400 | | | | | | 218,400 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | HYDRO SEED, FERTILIZE & MULCH | | 3.00 AC | 5,400 | - | | | /MH | | 5,400 |
| | | | LANDSCAPING | | | 5,400 | | | | | | 5,400 |
| | | | CIVIL WORK | | | 223,800 | | 81,260 | 167 | | 32,262 | 337,322 |
| | 71.00.00 | | PROJECT INDIRECT | | | | | | | | | |
| | | 71.27.00 | FREIGHT | | | | | | | | | |
| | | | TRANSPORT TRANSFORMERS & OCB OIL CIRCUIT BREAKERS TO MADISON, IN | | 18.00 EA | 37,440 | - | | | /MH | | 37,440 |
| | | | FREIGHT | | | 37,440 | | | | | | 37,440 |
| | | | PROJECT INDIRECT | | | 37,440 | | | | | | 37,440 |
| | | | **SW SWITCHYARD** | | | **261,240** | **(39,549)** | **81,260** | **2,963** | | **279,691** | **582,643** |
| **U1** | | | **UNIT 1** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - U1 BOILER BLDG | | 580.00 CY | - | - | | 417 | 88.57 /MH | 36,941 | 36,941 |
| | | | CONCRETE FOUNDATION - U1 HTR BAY | | 195.00 CY | - | - | | 140 | 88.57 /MH | 12,420 | 12,420 |
| | | | CONCRETE FOUNDATION - U1 TURBINE BLDG | | 324.00 CY | - | - | | 233 | 88.57 /MH | 20,636 | 20,636 |
| | | | CONCRETE FOUNDATION - U1 TURBINE PEDESTAL | | 220.00 CY | - | - | | 337 | 88.57 /MH | 29,813 | 29,813 |
| | | | CONCRETE FOUNDATION - U1 ID FAN FDN | | 34.00 CY | - | - | | 33 | 88.57 /MH | 2,880 | 2,880 |
| | | | CONCRETE | | | | | | 1,159 | | 102,688 | 102,688 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 1 BOILER BLDG | | 292.00 TN | - | - | | 252 | 79.92 /MH | 20,154 | 20,154 |
| | | | STRUCTURAL STEEL - UNIT 1 HEATER BAY | | 78.00 TN | - | - | | 67 | 79.92 /MH | 5,383 | 5,383 |
| | | | STRUCTURAL STEEL - UNIT 1 TURBINE BLDG | | 113.00 TN | - | - | | 98 | 79.92 /MH | 7,799 | 7,799 |
| | | | STEEL | | | | | | 417 | | 33,336 | 33,336 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | U1 BLR BLDG ROOF | | 7,835.00 SF | - | - | | 100 | 101.39 /MH | 10,128 | 10,128 |
| | | | U1 HTR BAY ROOF | | 2,628.00 SF | - | - | | 34 | 101.39 /MH | 3,397 | 3,397 |
| | | | U1 TURBINE BLDG | | 5,840.00 SF | - | - | | 74 | 101.39 /MH | 7,550 | 7,550 |
| | | | U1 BLR BLDG SIDING | | 15,616.00 SF | - | - | | 80 | 91.16 /MH | 7,260 | 7,260 |
| | | | U1 HTR BAY SIDING | | 3,328.00 SF | - | - | | 17 | 91.16 /MH | 1,547 | 1,547 |
| | | | U1 TURBINE BLDG SIDING | | 6,579.00 SF | - | - | | 34 | 91.16 /MH | 3,059 | 3,059 |
| | | | ARCHITECTURAL | | | | | | 338 | | 32,941 | 32,941 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | U1 BOILER AND APPURTENANCES, INCLUDES PA, ID & FD FANS | | 1,350.00 TN | - | - | | 3,098 | 88.50 /MH | 274,180 | 274,180 |
| | | | U1 AIR HEATER | | 364.00 TN | - | - | | 627 | 82.99 /MH | 51,996 | 51,996 |
| | | | U1 FUEL OIL EQUIPMENT | | 130.00 TN | - | - | | 224 | 82.99 /MH | 18,570 | 18,570 |

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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | U1 CONDENSERS | | 160.00 TN | - | - | | 326 | 82.99 /MH | 27,088 | 27,088 |
| | | | U1 WATER TREATING EQUIPMENT | | 100.00 TN | - | - | | 230 | 82.99 /MH | 19,046 | 19,046 |
| | | | U1 FW DEAERATING EQUIPMENT | | 70.00 TN | - | | | 161 | 82.99 /MH | 13,332 | 13,332 |
| | | | U1 TURBINE GENERATOR | | 350.00 TN | - | | | 803 | 82.99 /MH | 66,662 | 66,662 |
| | | | U1 DUCTWORK | | 100.00 TN | - | | | 303 | 82.99 /MH | 25,134 | 25,134 |
| | | | U1 MISC POWER PLANT EQUIP | | 120.00 TN | - | - | | 275 | 82.99 /MH | 22,855 | 22,855 |
| | | | U1 MISC. SMALL TANKS | | 38.00 TN | - | - | | 115 | 82.99 /MH | 9,551 | 9,551 |
| | | | U1 OVERHEAD CRANE | | 1.00 LS | - | - | | 281 | 82.99 /MH | 23,279 | 23,279 |
| | | | MECHANICAL EQUIPMENT | | | | | | 6,442 | | 551,693 | 551,693 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | U1 BOILER PIPING & SUPPORTS | | 250.00 TN | - | - | | 574 | 82.99 /MH | 47,616 | 47,616 |
| | | | U1 CIRC WATER SYSTEM | | 100.00 TN | - | - | | 230 | 82.99 /MH | 19,046 | 19,046 |
| | | | PIPING | | | | | | 803 | | 66,662 | 66,662 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | U1 SWITCHGEAR | | 46.00 TN | - | - | | 104 | 82.99 /MH | 8,670 | 8,670 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 104 | | 8,670 | 8,670 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - MISC | | 4.00 TN | - | - | | 80 | 106.72 /MH | 8,538 | 8,538 |
| | | | CABLE | | | | | | 80 | | 8,538 | 8,538 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | BUILDING WASTE ALLOWANCE | | 421.00 CY | - | - | | 147 | 116.90 /MH | 17,225 | 17,225 |
| | | | WASTE | | | | | | 147 | | 17,225 | 17,225 |
| | | | DEMOLITION | | | | | | 9,492 | | 821,754 | 821,754 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | U1 OIL FIRED BOILER | | -1,350.00 TN | - | (147,150) | - | | 79.92 /MH | | (147,150) |
| | | | U1 AIR HEATER | | -364.00 TN | - | (39,676) | - | | 79.92 /MH | | (39,676) |
| | | | U1 FUEL OIL EQUIPMENT | | -130.00 TN | - | (14,170) | - | | 79.92 /MH | | (14,170) |
| | | | U1 CONDENSERS | | -160.00 TN | - | (17,440) | - | | 79.92 /MH | | (17,440) |
| | | | U1 WATER TREATING EQUIPMENT | | -100.00 TN | - | (10,900) | - | | 79.92 /MH | | (10,900) |
| | | | U1 FW DEAERATING EQUIPMENT | | -70.00 TN | - | (7,630) | - | | 79.92 /MH | | (7,630) |
| | | | U1 TURBINE GENERATOR | | -350.00 TN | - | (38,150) | - | | 79.92 /MH | | (38,150) |
| | | | U1 DUCTWORK | | -100.00 TN | - | (10,900) | - | | 79.92 /MH | | (10,900) |
| | | | U1 SWITCHGEAR | | -46.00 TN | - | (5,014) | - | | 79.92 /MH | | (5,014) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 1 BOILER BLDG | | -292.00 TN | - | (31,828) | - | | 79.92 /MH | | (31,828) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 1 HEATER BAY | | -78.00 TN | - | (8,502) | - | | 79.92 /MH | | (8,502) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 1 TURBINE BLDG | | -113.00 TN | - | (12,317) | - | | 79.92 /MH | | (12,317) |
| | | | U1 MISC POWER PLANT EQUIP | | -120.00 TN | - | (13,080) | - | | 79.92 /MH | | (13,080) |
| | | | U1 BOILER PIPING & SUPPORTS | | -250.00 TN | - | (27,250) | - | | 79.92 /MH | | (27,250) |
| | | | U1 CIRC WATER SYSTEM | | -100.00 TN | - | (10,900) | - | | 79.92 /MH | | (10,900) |
| | | | U1 MISC. SMALL TANKS | | -38.00 TN | - | (4,142) | - | | 79.92 /MH | | (4,142) |
| | | | MIXED STEEL | | | | (399,049) | | | | | (399,049) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | U1 CABLE - MISC | | -4.00 TN | - | (13,868) | - | | 79.92 /MH | | (13,868) |
| | | | U1 TURBINE GENERATOR | | -8.00 TN | - | (27,736) | - | | 79.92 /MH | | (27,736) |
| | | | COPPER | | | | (41,604) | | | | | (41,604) |
| | | | SCRAP VALUE | | | | (440,653) | | | | | (440,653) |
| | | | **U1 UNIT 1** | | | | **(440,653)** | | **9,492** | | **821,754** | **381,101** |
| **U2** | | | **UNIT 2** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - U2 BOILER BLDG | | 580.00 CY | - | - | | 417 | 88.57 /MH | 36,941 | 36,941 |
| | | | CONCRETE FOUNDATION - U2 HTR BAY | | 195.00 CY | - | - | | 140 | 88.57 /MH | 12,420 | 12,420 |
| | | | CONCRETE FOUNDATION - U2 TURBINE BLDG | | 324.00 CY | - | - | | 233 | 88.57 /MH | 20,636 | 20,636 |
| | | | CONCRETE FOUNDATION - U2 TURBINE PEDESTAL | | 220.00 CY | - | - | | 337 | 88.57 /MH | 29,813 | 29,813 |
| | | | CONCRETE FOUNDATION - U2 ID FAN FDN | | 34.00 CY | - | - | | 33 | 88.57 /MH | 2,880 | 2,880 |
| | | | CONCRETE | | | | | | 1,159 | | 102,688 | 102,688 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 2 BOILER BLDG | | 292.00 TN | - | - | | 252 | 79.92 /MH | 20,154 | 20,154 |
| | | | STRUCTURAL STEEL - UNIT 2 HEATER BAY | | 78.00 TN | - | - | | 67 | 79.92 /MH | 5,383 | 5,383 |
| | | | STRUCTURAL STEEL - UNIT 2 TURBINE BLDG | | 113.00 TN | - | - | | 98 | 79.92 /MH | 7,799 | 7,799 |

Estimate No..: 32706H
Project No.: 10572-080
Estimate Date: 9/30/16
Prep/Rev/App: GA/RCK/MNO

**INDIANAPOLIS POWER & LIGHT**
**EAGLE VALLEY DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **STEEL** | | | | | | **417** | | **33,336** | **33,336** |
| | | **11.24.00** | **ARCHITECTURAL** | | | | | | | | | |
| | | | U2 BLR BLDG ROOF | | 7,835.00 SF | - | - | | 100 | 101.39 /MH | 10,128 | 10,128 |
| | | | U2 HTR BAY ROOF | | 2,628.00 SF | - | - | | 34 | 101.39 /MH | 3,397 | 3,397 |
| | | | U2 TURBINE BLDG ROOF | | 5,840.00 SF | - | - | | 74 | 101.39 /MH | 7,550 | 7,550 |
| | | | U2 BLR BLDG SIDING | | 7,604.00 SF | - | - | | 39 | 91.16 /MH | 3,535 | 3,535 |
| | | | U2 HTR BAY SIDING | | 1,192.00 SF | - | - | | 6 | 91.16 /MH | 554 | 554 |
| | | | U2 TURBINE BLDG SIDING | | 3,139.00 SF | - | - | | 16 | 91.16 /MH | 1,459 | 1,459 |
| | | | **ARCHITECTURAL** | | | | | | **269** | | **26,624** | **26,624** |
| | | **11.25.00** | **CONCRETE CHIMNEY & STACK** | | | | | | | | | |
| | | | BRICK CHIMNEY 14' DIA X 250' HIGH, UNITS 2 & 3 | INCLUDES HAULING AND DUMPING IN COAL YARD | 676.00 CY | - | - | | 1,437 | 88.57 /MH | 127,231 | 127,231 |
| | | | **CONCRETE CHIMNEY & STACK** | | | | | | **1,437** | | **127,231** | **127,231** |
| | | **11.31.00** | **MECHANICAL EQUIPMENT** | | | | | | | | | |
| | | | U2 BOILER AND APPURTENANCES, INCLUDES PA, ID & FD FANS | | 1,350.00 TN | - | - | | 3,098 | 88.50 /MH | 274,180 | 274,180 |
| | | | U2 AIR HEATER | | 364.00 TN | - | - | | 627 | 82.99 /MH | 51,996 | 51,996 |
| | | | U2 FUEL OIL EQUIPMENT | | 130.00 TN | - | - | | 224 | 82.99 /MH | 18,570 | 18,570 |
| | | | U2 CONDENSERS | | 160.00 TN | - | - | | 326 | 82.99 /MH | 27,088 | 27,088 |
| | | | U2 WATER TREATING EQUIPMENT | | 100.00 TN | - | - | | 230 | 82.99 /MH | 19,046 | 19,046 |
| | | | U2 FW DEAERATING EQUIPMENT | | 70.00 TN | - | | | 161 | 82.99 /MH | 13,332 | 13,332 |
| | | | U2 TURBINE GENERATOR | | 350.00 TN | - | | | 803 | 82.99 /MH | 66,662 | 66,662 |
| | | | U2 DUCTWORK | | 100.00 TN | - | | | 303 | 82.99 /MH | 25,134 | 25,134 |
| | | | U2 MISC POWER PLANT EQUIP | | 120.00 TN | - | - | | 275 | 82.99 /MH | 22,855 | 22,855 |
| | | | U2 MISC. SMALL TANKS | | 38.00 TN | - | - | | 115 | 82.99 /MH | 9,551 | 9,551 |
| | | | **MECHANICAL EQUIPMENT** | | | | | | **6,162** | | **528,414** | **528,414** |
| | | **11.35.00** | **PIPING** | | | | | | | | | |
| | | | U2 BOILER PIPING & SUPPORTS | | 250.00 TN | - | - | | 574 | 82.99 /MH | 47,616 | 47,616 |
| | | | U2 CIRC WATER SYSTEM | | 100.00 TN | - | - | | 230 | 82.99 /MH | 19,046 | 19,046 |
| | | | **PIPING** | | | | | | **803** | | **66,662** | **66,662** |
| | | **11.41.00** | **ELECTRICAL EQUIPMENT** | | | | | | | | | |
| | | | U2 SWITCHGEAR | | 46.00 TN | - | - | | 104 | 82.99 /MH | 8,670 | 8,670 |
| | | | **ELECTRICAL EQUIPMENT** | | | | | | **104** | | **8,670** | **8,670** |
| | | **11.43.00** | **CABLE** | | | | | | | | | |
| | | | CABLE - MISC | | 4.00 TN | - | - | | 80 | 106.72 /MH | 8,538 | 8,538 |
| | | | **CABLE** | | | | | | **80** | | **8,538** | **8,538** |
| | | **11.86.00** | **WASTE** | | | | | | | | | |
| | | | BUILDING WASTE ALLOWANCE | | 421.00 CY | - | - | | 147 | 116.90 /MH | 17,225 | 17,225 |
| | | | **WASTE** | | | | | | **147** | | **17,225** | **17,225** |
| | | | **DEMOLITION** | | | | | | **10,579** | | **919,389** | **919,389** |
| | **18.00.00** | | **SCRAP VALUE** | | | | | | | | | |
| | | **18.10.00** | **MIXED STEEL** | | | | | | | | | |
| | | | U2 OIL FIRED BOILER | | -1,350.00 TN | - | (147,150) | - | | 79.92 /MH | | (147,150) |
| | | | U2 AIR HEATER | | -364.00 TN | - | (39,676) | - | | 79.92 /MH | | (39,676) |
| | | | U2 FUEL OIL EQUIPMENT | | -130.00 TN | - | (14,170) | - | | 79.92 /MH | | (14,170) |
| | | | U2 CONDENSERS | | -160.00 TN | - | (17,440) | - | | 79.92 /MH | | (17,440) |
| | | | U2 WATER TREATING EQUIPMENT | | -100.00 TN | - | (10,900) | - | | 79.92 /MH | | (10,900) |
| | | | U2 FW DEAERATING EQUIPMENT | | -70.00 TN | - | (7,630) | - | | 79.92 /MH | | (7,630) |
| | | | U2 TURBINE GENERATOR | | -350.00 TN | - | (38,150) | - | | 79.92 /MH | | (38,150) |
| | | | U2 DUCTWORK | | -100.00 TN | - | (10,900) | - | | 79.92 /MH | | (10,900) |
| | | | U2 SWITCHGEAR | | -46.00 TN | - | (5,014) | - | | 79.92 /MH | | (5,014) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 2 BOILER BLDG | | -292.00 TN | - | (31,828) | - | | 79.92 /MH | | (31,828) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 2 HEATER BAY | | -78.00 TN | - | (8,502) | - | | 79.92 /MH | | (8,502) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 2 TURBINE BLDG | | -113.00 TN | - | (12,317) | - | | 79.92 /MH | | (12,317) |
| | | | U2 MISC POWER PLANT EQUIP | | -120.00 TN | - | (13,080) | - | | 79.92 /MH | | (13,080) |
| | | | U2 BOILER PIPING & SUPPORTS | | -250.00 TN | - | (27,250) | - | | 79.92 /MH | | (27,250) |
| | | | U2 CIRC WATER SYSTEM | | -100.00 TN | - | (10,900) | - | | 79.92 /MH | | (10,900) |
| | | | U2 MISC. SMALL TANKS | | -38.00 TN | - | (4,142) | - | | 79.92 /MH | | (4,142) |
| | | | **MIXED STEEL** | | | | **(399,049)** | | | | | **(399,049)** |
| | | **18.30.00** | **COPPER** | | | | | | | | | |
| | | | U2 CABLE - MISC | | -4.00 TN | - | (13,868) | - | | 79.92 /MH | | (13,868) |

Estimate No..: 32706H
Project No.: 10572-080
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**INDIANAPOLIS POWER & LIGHT**
**EAGLE VALLEY DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | U2 TURBINE GENERATOR | | -8.00 TN | - | (27,736) | - | | 79.92 /MH | | (27,736) |
| | | | COPPER | | | | (41,604) | | | | | (41,604) |
| | | | SCRAP VALUE | | | | (440,653) | | | | | (440,653) |
| | | | **U2 UNIT 2** | | | | **(440,653)** | | **10,579** | | **919,389** | **478,736** |
| **U3** | | | **UNIT 3** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - U3 BOILER BLDG | | 445.00 CY | - | - | | 320 | 88.57 /MH | 28,342 | 28,342 |
| | | | CONCRETE FOUNDATION - U3 HTR BAY | | 149.00 CY | - | - | | 109 | 88.57 /MH | 9,692 | 9,692 |
| | | | CONCRETE FOUNDATION - U3 TURBINE BLDG | | 249.00 CY | - | - | | 183 | 88.57 /MH | 16,196 | 16,196 |
| | | | CONCRETE FOUNDATION - U3 TURBINE PEDESTAL | | 220.00 CY | - | - | | 337 | 88.57 /MH | 29,813 | 29,813 |
| | | | CONCRETE FOUNDATION - U3 ID FAN FDN | | 47.00 CY | - | - | | 45 | 88.57 /MH | 3,981 | 3,981 |
| | | | CONCRETE | | | | | | 994 | | 88,024 | 88,024 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 3 BOILER BLDG | | 224.00 TN | - | - | | 193 | 79.92 /MH | 15,460 | 15,460 |
| | | | STRUCTURAL STEEL - UNIT 3 HEATER BAY | | 60.00 TN | - | - | | 52 | 79.92 /MH | 4,141 | 4,141 |
| | | | STRUCTURAL STEEL - UNIT 3 TURBINE BLDG | | 87.00 TN | - | - | | 75 | 79.92 /MH | 6,005 | 6,005 |
| | | | STEEL | | | | | | 320 | | 25,606 | 25,606 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | U3 BLR BLDG ROOF | | 6,011.00 SF | - | - | | 77 | 101.39 /MH | 7,771 | 7,771 |
| | | | U3 HTR BAY ROOF | | 2,016.00 SF | - | - | | 26 | 101.39 /MH | 2,606 | 2,606 |
| | | | U3 TURBINE BLDG ROOF | | 4,480.00 SF | - | - | | 57 | 101.39 /MH | 5,791 | 5,791 |
| | | | U3 BLR BLDG SIDING | | 5,833.00 SF | - | - | | 30 | 91.16 /MH | 2,712 | 2,712 |
| | | | U3 HTR BAY SIDING | | 915.00 SF | - | - | | 5 | 91.16 /MH | 425 | 425 |
| | | | U3 TURBINE BLDG SIDING | | 2,408.00 SF | - | - | | 12 | 91.16 /MH | 1,120 | 1,120 |
| | | | ARCHITECTURAL | | | | | | 206 | | 20,425 | 20,425 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | U3 BOILER AND APPURTENANCES | | 1,113.00 TN | - | - | | 1,916 | 82.99 /MH | 158,988 | 158,988 |
| | | | U3 PA, ID & FD FANS | | 146.00 TN | - | - | | 251 | 82.99 /MH | 20,856 | 20,856 |
| | | | U3 AIR HEATER | | 383.00 TN | - | - | | 659 | 82.99 /MH | 54,710 | 54,710 |
| | | | U3 PULVERIZERS | | 219.00 TN | - | - | | 377 | 82.99 /MH | 31,283 | 31,283 |
| | | | U3 CONDENSERS | | 54.00 TN | - | - | | 110 | 82.99 /MH | 9,142 | 9,142 |
| | | | U3 WATER TREATING EQUIPMENT | | 56.00 TN | - | - | | 129 | 82.99 /MH | 10,666 | 10,666 |
| | | | U3 HEAT EXCHANGERS | | 104.00 TN | - | | | 179 | 82.99 /MH | 14,856 | 14,856 |
| | | | U3 TURBINE GENERATOR | | 479.00 TN | - | | | 1,099 | 82.99 /MH | 91,231 | 91,231 |
| | | | U3 DUCTWORK | | 373.00 TN | - | | | 1,130 | 82.99 /MH | 93,750 | 93,750 |
| | | | U3 MISC POWER PLANT EQUIP | | 126.00 TN | - | - | | 289 | 82.99 /MH | 23,998 | 23,998 |
| | | | U3 MISC. SMALL TANKS | | 40.00 TN | - | - | | 121 | 82.99 /MH | 10,054 | 10,054 |
| | | | MECHANICAL EQUIPMENT | | | | | | 6,260 | | 519,534 | 519,534 |
| | | 11.33.00 | MATERIAL HANDLING EQUIPMENT | | | | | | | | | |
| | | | U3 COAL CONVEYOR | | 10.00 TN | - | - | | 26 | 82.99 /MH | 2,116 | 2,116 |
| | | | MATERIAL HANDLING EQUIPMENT | | | | | | 26 | | 2,116 | 2,116 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | U3 BOILER PIPING & SUPPORTS | | 263.00 TN | - | - | | 604 | 82.99 /MH | 50,092 | 50,092 |
| | | | U3 CIRC WATER SYSTEM | | 105.00 TN | - | - | | 241 | 82.99 /MH | 19,999 | 19,999 |
| | | | PIPING | | | | | | 845 | | 70,090 | 70,090 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | U3 SWITCHGEAR | | 48.00 TN | - | - | | 109 | 82.99 /MH | 9,047 | 9,047 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 109 | | 9,047 | 9,047 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - MISC | | 4.00 TN | - | - | | 44 | 106.72 /MH | 4,696 | 4,696 |
| | | | CABLE | | | | | | 44 | | 4,696 | 4,696 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | BUILDING WASTE ALLOWANCE | | 421.00 CY | - | - | | 147 | 116.90 /MH | 17,225 | 17,225 |
| | | | WASTE | | | | | | 147 | | 17,225 | 17,225 |
| | | | DEMOLITION | | | | | | 8,951 | | 756,764 | 756,764 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | U3 COAL BOILER | | -1,113.00 TN | - | (121,317) | - | | 79.92 /MH | | (121,317) |
| | | | U3 PA, ID & FD FANS | | -146.00 TN | - | (15,914) | - | | 79.92 /MH | | (15,914) |
| | | | U3 AIR HEATER | | -383.00 TN | - | (41,747) | - | | 79.92 /MH | | (41,747) |
| | | | U3 PULVERIZERS | | -219.00 TN | - | (23,871) | - | | 79.92 /MH | | (23,871) |
| | | | U3 CONDENSERS | | -54.00 TN | - | (5,886) | - | | 79.92 /MH | | (5,886) |
| | | | U3 WATER TREATING EQUIPMENT | | -56.00 TN | - | (6,104) | - | | 79.92 /MH | | (6,104) |
| | | | U3 HEAT EXCHANGERS | | -104.00 TN | - | (11,336) | - | | 79.92 /MH | | (11,336) |
| | | | U3 TURBINE GENERATOR | | -479.00 TN | - | (52,211) | - | | 79.92 /MH | | (52,211) |
| | | | U3 DUCTWORK | | -373.00 TN | - | (40,657) | - | | 79.92 /MH | | (40,657) |
| | | | U3 COAL CONVEYOR | | -10.00 TN | - | (1,090) | - | | 79.92 /MH | | (1,090) |
| | | | U3 SWITCHGEAR | | -48.00 TN | - | (5,232) | - | | 79.92 /MH | | (5,232) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 3 BOILER BLDG | | -224.00 TN | - | (24,416) | - | | 79.92 /MH | | (24,416) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 3 HEATER BAY | | -60.00 TN | - | (6,540) | - | | 79.92 /MH | | (6,540) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 3 TURBINE BLDG | | -87.00 TN | - | (9,483) | - | | 79.92 /MH | | (9,483) |
| | | | U3 MISC POWER PLANT EQUIP | | -126.00 TN | - | (13,734) | - | | 79.92 /MH | | (13,734) |
| | | | U3 BOILER PIPING & SUPPORTS | | -263.00 TN | - | (28,667) | - | | 79.92 /MH | | (28,667) |
| | | | U3 CIRC WATER SYSTEM | | -105.00 TN | - | (11,445) | - | | 79.92 /MH | | (11,445) |
| | | | U3 MISC. SMALL TANKS | | -40.00 TN | - | (4,360) | - | | 79.92 /MH | | (4,360) |
| | | | MIXED STEEL | | | | (424,010) | | | | | (424,010) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | U3 CABLE - MISC | | -4.00 TN | - | (13,868) | - | | 79.92 /MH | | (13,868) |
| | | | U3 TURBINE GENERATOR | | -9.00 TN | - | (31,203) | - | | 79.92 /MH | | (31,203) |
| | | | COPPER | | | | (45,071) | | | | | (45,071) |
| | | | SCRAP VALUE | | | | (469,081) | | | | | (469,081) |
| | | | **U3 UNIT 3** | | | | **(469,081)** | | **8,951** | | **756,764** | **287,683** |
| **U4** | | | **UNIT 4** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - U4 BLR BLDG | | 476.00 CY | - | - | | 455 | 88.57 /MH | 40,315 | 40,315 |
| | | | CONCRETE FOUNDATION - U4 HTR BAY | | 160.00 CY | - | - | | 115 | 88.57 /MH | 10,191 | 10,191 |
| | | | CONCRETE FOUNDATION - U4 TURBINE BLDG | | 267.00 CY | - | - | | 192 | 88.57 /MH | 17,005 | 17,005 |
| | | | CONCRETE FOUNDATION - U4 TURBINE PEDESTAL | | 292.00 CY | - | - | | 447 | 88.57 /MH | 39,570 | 39,570 |
| | | | CONCRETE FOUNDATION - U4 ID FAN FDN | | 47.00 CY | - | - | | 45 | 88.57 /MH | 3,981 | 3,981 |
| | | | CONCRETE | | | | | | 1,254 | | 111,061 | 111,061 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 4 BOILER BLDG | | 299.00 TN | - | - | | 258 | 79.92 /MH | 20,637 | 20,637 |
| | | | STRUCTURAL STEEL - UNIT 4 HEATER BAY | | 64.00 TN | - | - | | 55 | 79.92 /MH | 4,417 | 4,417 |
| | | | STRUCTURAL STEEL - UNIT 4 TURBINE BLDG | | 93.00 TN | - | - | | 80 | 79.92 /MH | 6,419 | 6,419 |
| | | | STEEL | | | | | | 394 | | 31,473 | 31,473 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | U4 BLR BLDG ROOF | | 6,440.00 SF | - | - | | 82 | 101.39 /MH | 8,325 | 8,325 |
| | | | U4 HTR BAY ROOF | | 2,160.00 SF | - | - | | 28 | 101.39 /MH | 2,792 | 2,792 |
| | | | U4 TURBINE BLDG ROOF | | 4,800.00 SF | - | - | | 61 | 101.39 /MH | 6,205 | 6,205 |
| | | | U4 BLR BLDG SIDING | | 9,700.00 SF | - | - | | 49 | 91.16 /MH | 4,510 | 4,510 |
| | | | U4 HTR BAY SIDING | | 980.00 SF | - | - | | 5 | 91.16 /MH | 456 | 456 |
| | | | U4 TURBINE BLDG SIDING | | 2,580.00 SF | - | - | | 13 | 91.16 /MH | 1,199 | 1,199 |
| | | | ARCHITECTURAL | | | | | | 238 | | 23,487 | 23,487 |
| | | 11.25.00 | CONCRETE CHIMNEY & STACK | | | | | | | | | |
| | | | BRICK CHIMNEY 15' DIA X 281' HIGH, UNITS 4 &5 | INCLUDES HAULING AND DUMPING IN COAL YARD | 809.00 CY | - | - | | 1,719 | 88.57 /MH | 152,263 | 152,263 |
| | | | CONCRETE CHIMNEY & STACK | | | | | | 1,719 | | 152,263 | 152,263 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | U4 BOILER AND APPURTENANCES | | 1,351.00 TN | - | - | | 3,101 | 88.50 /MH | 274,383 | 274,383 |
| | | | U4 PA, ID & FD FANS | | 177.00 TN | - | - | | 305 | 82.99 /MH | 25,284 | 25,284 |
| | | | U4 AIR HEATER | | 465.00 TN | - | - | | 800 | 82.99 /MH | 66,424 | 66,424 |
| | | | U4 PULVERIZERS | | 265.00 TN | - | - | | 456 | 82.99 /MH | 37,854 | 37,854 |
| | | | U4 CONDENSERS | | 65.00 TN | - | - | | 133 | 82.99 /MH | 11,004 | 11,004 |
| | | | U4 WATER TREATING EQUIPMENT | | 68.00 TN | - | - | | 156 | 82.99 /MH | 12,951 | 12,951 |
| | | | U4 HEAT EXCHANGERS | | 126.00 TN | - | | | 217 | 82.99 /MH | 17,999 | 17,999 |
| | | | U4 TURBINE GENERATOR | | 581.00 TN | - | | | 1,333 | 82.99 /MH | 110,658 | 110,658 |
| | | | U4 PRECIPITATOR | | 424.00 TN | - | | | 730 | 82.99 /MH | 60,567 | 60,567 |
| | | | U4 DUCTWORK | | 453.00 TN | - | | | 1,372 | 82.99 /MH | 113,857 | 113,857 |
| | | | U4 ASH HANDLING EQUIPMENT | | 270.00 TN | - | | | 465 | 82.99 /MH | 38,569 | 38,569 |
| | | | U4 MISC POWER PLANT EQUIP | | 153.00 TN | - | - | | 351 | 82.99 /MH | 29,141 | 29,141 |

Estimate No..: 32706H
Project No.: 10572-080
Estimate Date: 9/30/16
Prep/Rev/App: GA/RCK/MNO

**INDIANAPOLIS POWER & LIGHT**
**EAGLE VALLEY DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | U4 MISC. SMALL TANKS | | 48.00 TN | - | - | | 145 | 82.99 /MH | 12,064 | 12,064 |
| | | | MECHANICAL EQUIPMENT | | | | | | 9,564 | | 810,755 | 810,755 |
| | | 11.33.00 | MATERIAL HANDLING EQUIPMENT | | | | | | | | | |
| | | | U4 COAL CONVEYOR | | 10.00 TN | - | - | | 26 | 82.99 /MH | 2,116 | 2,116 |
| | | | MATERIAL HANDLING EQUIPMENT | | | | | | 26 | | 2,116 | 2,116 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | U4 BOILER PIPING & SUPPORTS | | 319.00 TN | - | - | | 732 | 82.99 /MH | 60,757 | 60,757 |
| | | | U4 CIRC WATER SYSTEM | | 128.00 TN | - | - | | 294 | 82.99 /MH | 24,379 | 24,379 |
| | | | PIPING | | | | | | 1,026 | | 85,137 | 85,137 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | U4 SWITCHGEAR | | 58.00 TN | - | - | | 132 | 82.99 /MH | 10,932 | 10,932 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 132 | | 10,932 | 10,932 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - MISC | | 5.00 TN | - | - | | 110 | 106.72 /MH | 11,739 | 11,739 |
| | | | CABLE | | | | | | 110 | | 11,739 | 11,739 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | BUILDING WASTE ALLOWANCE | | 859.00 CY | - | - | | 301 | 116.90 /MH | 35,146 | 35,146 |
| | | | WASTE | | | | | | 301 | | 35,146 | 35,146 |
| | | | DEMOLITION | | | | | | 14,763 | | 1,274,109 | 1,274,109 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | U4 COAL BOILER | | -1,351.00 TN | - | (147,259) | - | | 79.92 /MH | | (147,259) |
| | | | U4 PA, ID & FD FANS | | -177.00 TN | - | (19,293) | - | | 79.92 /MH | | (19,293) |
| | | | U4 AIR HEATER | | -465.00 TN | - | (50,685) | - | | 79.92 /MH | | (50,685) |
| | | | U4 PULVERIZERS | | -265.00 TN | - | (28,885) | - | | 79.92 /MH | | (28,885) |
| | | | U4 CONDENSERS | | -65.00 TN | - | (7,085) | - | | 79.92 /MH | | (7,085) |
| | | | U4 WATER TREATING EQUIPMENT | | -68.00 TN | - | (7,412) | - | | 79.92 /MH | | (7,412) |
| | | | U4 HEAT EXCHANGERS | | -126.00 TN | - | (13,734) | - | | 79.92 /MH | | (13,734) |
| | | | U4 TURBINE GENERATOR | | -581.00 TN | - | (63,329) | - | | 79.92 /MH | | (63,329) |
| | | | U4 PRECIPITATOR | | -424.00 TN | - | (46,216) | - | | 79.92 /MH | | (46,216) |
| | | | U4 DUCTWORK | | -453.00 TN | - | (49,377) | - | | 79.92 /MH | | (49,377) |
| | | | U4 ASH HANDLING EQUIPMENT | | -270.00 TN | - | (29,430) | - | | 79.92 /MH | | (29,430) |
| | | | COAL CONVEYOR | | -10.00 TN | - | (1,090) | - | | 79.92 /MH | | (1,090) |
| | | | U4 SWITCHGEAR | | -58.00 TN | - | (6,322) | - | | 79.92 /MH | | (6,322) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 4 BOILER BLDG | | -299.00 TN | - | (32,591) | - | | 79.92 /MH | | (32,591) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 4 HEATER BAY | | -64.00 TN | - | (6,976) | - | | 79.92 /MH | | (6,976) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 4 TURBINE BLDG | | -93.00 TN | - | (10,137) | - | | 79.92 /MH | | (10,137) |
| | | | U4 MISC POWER PLANT EQUIP | | -153.00 TN | - | (16,677) | - | | 79.92 /MH | | (16,677) |
| | | | U4 BOILER PIPING & SUPPORTS | | -319.00 TN | - | (34,771) | - | | 79.92 /MH | | (34,771) |
| | | | U4 CIRC WATER SYSTEM | | -128.00 TN | - | (13,952) | - | | 79.92 /MH | | (13,952) |
| | | | U4 MISC. SMALL TANKS | | -48.00 TN | - | (5,232) | - | | 79.92 /MH | | (5,232) |
| | | | MIXED STEEL | | | | (590,453) | | | | | (590,453) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | U4 CABLE - MISC | | -5.00 TN | - | (17,335) | - | | 79.92 /MH | | (17,335) |
| | | | U4 TURBINE GENERATOR | | -11.00 TN | - | (38,137) | - | | 79.92 /MH | | (38,137) |
| | | | COPPER | | | | (55,472) | | | | | (55,472) |
| | | | SCRAP VALUE | | | | (645,925) | | | | | (645,925) |
| | | | **U4 UNIT 4** | | | | **(645,925)** | | **14,763** | | **1,274,109** | **628,184** |
| **U5** | | | **UNIT 5** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - U5 BOILER BLDG | | 553.00 CY | - | - | | 398 | 88.57 /MH | 35,221 | 35,221 |
| | | | CONCRETE FOUNDATION - U5 HTR BAY | | 185.00 CY | - | - | | 133 | 88.57 /MH | 11,783 | 11,783 |
| | | | CONCRETE FOUNDATION - U5 TURBINE BLDG | | 309.00 CY | - | - | | 222 | 88.57 /MH | 19,680 | 19,680 |
| | | | CONCRETE FOUNDATION - U5 TURBINE PEDESTAL | | 292.00 CY | - | - | | 447 | 88.57 /MH | 39,570 | 39,570 |
| | | | CONCRETE FOUNDATION - U5 ID FAN FDN | | 71.00 CY | - | - | | 68 | 88.57 /MH | 6,013 | 6,013 |
| | | | CONCRETE | | | | | | 1,268 | | 112,267 | 112,267 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 5 BOILER BLDG | | 346.00 TN | - | - | | 299 | 79.92 /MH | 23,881 | 23,881 |

Estimate No..: 32706H
Project No.: 10572-080
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Prep/Rev/App: GA/RCK/MNO

**INDIANAPOLIS POWER & LIGHT**
**EAGLE VALLEY DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 5 HEATER BAY | | 74.00 TN | - | - | | 64 | 79.92 /MH | 5,107 | 5,107 |
| | | | STRUCTURAL STEEL - UNIT 5 TURBINE BLDG | | 108.00 TN | - | - | | 93 | 79.92 /MH | 7,454 | 7,454 |
| | | | STEEL | | | | | | 456 | | 36,442 | 36,442 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | U5 BLR BLDG ROOF | | 7,460.00 SF | - | - | | 95 | 101.39 /MH | 9,644 | 9,644 |
| | | | U5 HTR BAY ROOF | | 2,502.00 SF | - | - | | 32 | 101.39 /MH | 3,234 | 3,234 |
| | | | U5 TURBINE BLDG ROOF | | 5,560.00 SF | - | - | | 71 | 101.39 /MH | 7,188 | 7,188 |
| | | | U5 BLR BLDG SIDING | | 11,236.00 SF | - | - | | 57 | 91.16 /MH | 5,224 | 5,224 |
| | | | U5 HTR BAY SIDING | | 1,135.00 SF | - | - | | 6 | 91.16 /MH | 528 | 528 |
| | | | U5 TURBINE BLDG SIDING | | 2,989.00 SF | - | - | | 15 | 91.16 /MH | 1,390 | 1,390 |
| | | | ARCHITECTURAL | | | | | | 276 | | 27,207 | 27,207 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | U5 BOILER AND APPURTENANCES | | 1,351.00 TN | - | - | | 3,101 | 88.50 /MH | 274,383 | 274,383 |
| | | | U5 PA, ID & FD FANS | | 177.00 TN | - | - | | 305 | 82.99 /MH | 25,284 | 25,284 |
| | | | U5 AIR HEATER | | 465.00 TN | - | - | | 800 | 82.99 /MH | 66,424 | 66,424 |
| | | | U5 PULVERIZERS | | 265.00 TN | - | - | | 456 | 82.99 /MH | 37,854 | 37,854 |
| | | | U5 CONDENSERS | | 65.00 TN | - | - | | 133 | 82.99 /MH | 11,004 | 11,004 |
| | | | U5 WATER TREATING EQUIPMENT | | 68.00 TN | - | - | | 156 | 82.99 /MH | 12,951 | 12,951 |
| | | | U5 HEAT EXCHANGERS | | 126.00 TN | - | | | 217 | 82.99 /MH | 17,999 | 17,999 |
| | | | U5 TURBINE GENERATOR | | 581.00 TN | - | | | 1,333 | 82.99 /MH | 110,658 | 110,658 |
| | | | U5 PRECIPITATOR | | 424.00 TN | - | | | 730 | 82.99 /MH | 60,567 | 60,567 |
| | | | U5 DUCTWORK | | 453.00 TN | - | | | 1,407 | 82.99 /MH | 116,733 | 116,733 |
| | | | U5 ASH HANDLING EQUIPMENT | | 270.00 TN | - | | | 465 | 82.99 /MH | 38,569 | 38,569 |
| | | | U5 MISC POWER PLANT EQUIP | | 153.00 TN | - | - | | 351 | 82.99 /MH | 29,141 | 29,141 |
| | | | U5 MISC. SMALL TANKS | | 48.00 TN | - | - | | 145 | 82.99 /MH | 12,064 | 12,064 |
| | | | MECHANICAL EQUIPMENT | | | | | | 9,598 | | 813,631 | 813,631 |
| | | 11.33.00 | MATERIAL HANDLING EQUIPMENT | | | | | | | | | |
| | | | U5 COAL CONVEYOR | | 10.00 TN | - | - | | 26 | 82.99 /MH | 2,116 | 2,116 |
| | | | MATERIAL HANDLING EQUIPMENT | | | | | | 26 | | 2,116 | 2,116 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | U5 BOILER PIPING & SUPPORTS | | 319.00 TN | - | - | | 732 | 82.99 /MH | 60,757 | 60,757 |
| | | | U5 CIRC WATER SYSTEM | | 128.00 TN | - | - | | 294 | 82.99 /MH | 24,379 | 24,379 |
| | | | PIPING | | | | | | 1,026 | | 85,137 | 85,137 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | U5 SWITCHGEAR | | 58.00 TN | - | - | | 132 | 82.99 /MH | 10,932 | 10,932 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 132 | | 10,932 | 10,932 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - MISC | | 5.00 TN | - | - | | 110 | 106.72 /MH | 11,739 | 11,739 |
| | | | CABLE | | | | | | 110 | | 11,739 | 11,739 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | BUILDING WASTE ALLOWANCE | | 859.00 CY | - | - | | 301 | 116.90 /MH | 35,146 | 35,146 |
| | | | WASTE | | | | | | 301 | | 35,146 | 35,146 |
| | | | DEMOLITION | | | | | | 13,192 | | 1,134,617 | 1,134,617 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | U5 COAL BOILER | | -1,351.00 TN | - | (147,259) | - | | 79.92 /MH | | (147,259) |
| | | | U5 PA, ID & FD FANS | | -177.00 TN | - | (19,293) | - | | 79.92 /MH | | (19,293) |
| | | | U5 AIR HEATER | | -465.00 TN | - | (50,685) | - | | 79.92 /MH | | (50,685) |
| | | | U5 PULVERIZERS | | -265.00 TN | - | (28,885) | - | | 79.92 /MH | | (28,885) |
| | | | U5 CONDENSERS | | -65.00 TN | - | (7,085) | - | | 79.92 /MH | | (7,085) |
| | | | U5 WATER TREATING EQUIPMENT | | -68.00 TN | - | (7,412) | - | | 79.92 /MH | | (7,412) |
| | | | U5 HEAT EXCHANGERS | | -126.00 TN | - | (13,734) | - | | 79.92 /MH | | (13,734) |
| | | | U5 TURBINE GENERATOR | | -581.00 TN | - | (63,329) | - | | 79.92 /MH | | (63,329) |
| | | | U5 PRECIPITATOR | | -424.00 TN | - | (46,216) | - | | 79.92 /MH | | (46,216) |
| | | | U5 DUCTWORK | | -453.00 TN | - | (49,377) | - | | 79.92 /MH | | (49,377) |
| | | | U5 ASH HANDLING EQUIPMENT | | -270.00 TN | - | (29,430) | - | | 79.92 /MH | | (29,430) |
| | | | U5 COAL CONVEYOR | | -10.00 TN | - | (1,090) | - | | 79.92 /MH | | (1,090) |
| | | | U5 SWITCHGEAR | | -58.00 TN | - | (6,322) | - | | 79.92 /MH | | (6,322) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 5 BOILER BLDG | | -346.00 TN | - | (37,714) | - | | 79.92 /MH | | (37,714) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 5 HEATER BAY | | -74.00 TN | - | (8,066) | - | | 79.92 /MH | | (8,066) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 5 TURBINE BLDG | | -108.00 TN | - | (11,772) | - | | 79.92 /MH | | (11,772) |

Estimate No..: 32706H
Project No.: 10572-080
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Prep/Rev/App: GA/RCK/MNO

**INDIANAPOLIS POWER & LIGHT**
**EAGLE VALLEY DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | U5 MISC POWER PLANT EQUIP | | -153.00 TN | - | (16,677) | - | | 79.92 /MH | | (16,677) |
| | | | U5 BOILER PIPING & SUPPORTS | | -319.00 TN | - | (34,771) | - | | 79.92 /MH | | (34,771) |
| | | | U5 CIRC WATER SYSTEM | | -128.00 TN | - | (13,952) | - | | 79.92 /MH | | (13,952) |
| | | | U5 MISC. SMALL TANKS | | -48.00 TN | - | (5,232) | - | | 79.92 /MH | | (5,232) |
| | | | MIXED STEEL | | | | (598,301) | | | | | (598,301) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | U5 CABLE - MISC | | -5.00 TN | - | (17,335) | - | | 79.92 /MH | | (17,335) |
| | | | U5 TURBINE GENERATOR | | -11.00 TN | - | (38,137) | - | | 79.92 /MH | | (38,137) |
| | | | COPPER | | | | (55,472) | | | | | (55,472) |
| | | | SCRAP VALUE | | | | (653,773) | | | | | (653,773) |
| | | | **U5 UNIT 5** | | | | **(653,773)** | | **13,192** | | **1,134,617** | **480,844** |
| **U6** | | | **UNIT 6** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - U6 BOILER BLDG | | 553.00 CY | - | - | | 398 | 88.57 /MH | 35,221 | 35,221 |
| | | | CONCRETE FOUNDATION - U6 HTR BAY | | 185.00 CY | - | - | | 133 | 88.57 /MH | 11,783 | 11,783 |
| | | | CONCRETE FOUNDATION - U6 TURBINE BLDG | | 389.00 CY | - | - | | 595 | 88.57 /MH | 52,714 | 52,714 |
| | | | CONCRETE FOUNDATION - U6 TURBINE PEDESTAL | | 292.00 CY | - | - | | 447 | 88.57 /MH | 39,570 | 39,570 |
| | | | CONCRETE FOUNDATION - U6 ID FAN FDN | | 71.00 CY | - | - | | 68 | 88.57 /MH | 6,013 | 6,013 |
| | | | CONCRETE | | | | | | **1,641** | | **145,301** | **145,301** |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 6 BOILER BLDG | | 346.00 TN | - | - | | 299 | 79.92 /MH | 23,881 | 23,881 |
| | | | STRUCTURAL STEEL - UNIT 6 HEATER BAY | | 86.00 TN | - | - | | 74 | 79.92 /MH | 5,936 | 5,936 |
| | | | STRUCTURAL STEEL - UNIT 6 TURBINE BLDG | | 135.00 TN | - | - | | 117 | 79.92 /MH | 9,318 | 9,318 |
| | | | STEEL | | | | | | **490** | | **39,134** | **39,134** |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | U6 BLR BLDG ROOF | | 7,460.00 SF | - | - | | 95 | 101.39 /MH | 9,644 | 9,644 |
| | | | U6 HTR BAY ROOF | | 2,502.00 SF | - | - | | 32 | 101.39 /MH | 3,234 | 3,234 |
| | | | U6 TURBINE BLDG ROOF | | 7,000.00 SF | - | - | | 89 | 101.39 /MH | 9,049 | 9,049 |
| | | | U6 BLR BLDG SIDING | | 20,561.00 SF | - | - | | 105 | 91.16 /MH | 9,559 | 9,559 |
| | | | U6 HTR BAY SIDING | | 4,697.00 SF | - | - | | 24 | 91.16 /MH | 2,184 | 2,184 |
| | | | U6 TURBINE BLDG SIDING | | 7,203.00 SF | - | - | | 37 | 91.16 /MH | 3,349 | 3,349 |
| | | | ARCHITECTURAL | | | | | | **382** | | **37,019** | **37,019** |
| | | 11.25.00 | CONCRETE CHIMNEY & STACK | | | | | | | | | |
| | | | BRICK CHIMNEY 18' DIA X 281' HIGH, UNIT 6 | INCLUDES HAULING AND DUMPING IN COAL YARD | 956.00 CY | - | - | | 2,032 | 88.57 /MH | 179,930 | 179,930 |
| | | | CONCRETE CHIMNEY & STACK | | | | | | **2,032** | | **179,930** | **179,930** |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | U6 BOILER AND APPURTENANCES | | 1,822.00 TN | - | - | | 4,181 | 88.50 /MH | 370,041 | 370,041 |
| | | | U6 PA, ID & FD FANS | | 238.00 TN | - | - | | 410 | 82.99 /MH | 33,997 | 33,997 |
| | | | U6 AIR HEATER | | 626.00 TN | - | - | | 1,078 | 82.99 /MH | 89,422 | 89,422 |
| | | | U6 PULVERIZERS | | 358.00 TN | - | - | | 616 | 82.99 /MH | 51,139 | 51,139 |
| | | | U6 CONDENSERS | | 88.00 TN | - | - | | 180 | 82.99 /MH | 14,898 | 14,898 |
| | | | U6 WATER TREATING EQUIPMENT | | 91.00 TN | - | - | | 209 | 82.99 /MH | 17,332 | 17,332 |
| | | | U6 HEAT EXCHANGERS | | 169.00 TN | - | | | 291 | 82.99 /MH | 24,141 | 24,141 |
| | | | U6 TURBINE GENERATOR | | 783.00 TN | - | | | 1,797 | 82.99 /MH | 149,132 | 149,132 |
| | | | U6 PRECIPITATOR | | 572.00 TN | - | | | 985 | 82.99 /MH | 81,708 | 81,708 |
| | | | U6 DUCTWORK | | 611.00 TN | - | | | 1,850 | 82.99 /MH | 153,568 | 153,568 |
| | | | U6 ASH HANDLING EQUIPMENT | | 364.00 TN | - | | | 627 | 82.99 /MH | 51,996 | 51,996 |
| | | | STEEL FLY ASH SILO | | 172.00 TN | - | | | 296 | 82.99 /MH | 24,570 | 24,570 |
| | | | U6 MISC POWER PLANT EQUIP | | 206.00 TN | - | - | | 473 | 82.99 /MH | 39,235 | 39,235 |
| | | | U6 MISC. SMALL TANKS | | 65.00 TN | - | - | | 197 | 82.99 /MH | 16,337 | 16,337 |
| | | | U6 OVERHEAD CRANE | | 1.00 LS | - | - | | 281 | 82.99 /MH | 23,279 | 23,279 |
| | | | MECHANICAL EQUIPMENT | | | | | | **13,469** | | **1,140,796** | **1,140,796** |
| | | 11.33.00 | MATERIAL HANDLING EQUIPMENT | | | | | | | | | |
| | | | U6 COAL CONVEYOR | | 15.00 TN | - | - | | 38 | 82.99 /MH | 3,174 | 3,174 |
| | | | MATERIAL HANDLING EQUIPMENT | | | | | | **38** | | **3,174** | **3,174** |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | U6 BOILER PIPING & SUPPORTS | | 430.00 TN | - | - | | 987 | 82.99 /MH | 81,899 | 81,899 |
| | | | U6 CIRC WATER SYSTEM | | 172.00 TN | - | - | | 395 | 82.99 /MH | 32,759 | 32,759 |

Estimate No..: 32706H
Project No.: 10572-080
Estimate Date: 9/30/16
Prep/Rev/App: GA/RCK/MNO

**INDIANAPOLIS POWER & LIGHT**
**EAGLE VALLEY DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PIPING | | | | | | 1,382 | | 114,658 | 114,658 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | U6 SWITCHGEAR | | 78.00 TN | - | - | | 177 | 82.99 /MH | 14,702 | 14,702 |
| | | | U6 TRANSFORMER | U6 DISCONNECT & DISMANTLE 93.5 MVA, 13.2KV/138KV | 1.00 EA | - | - | | 100 | 76.83 /MH | 7,683 | 7,683 |
| | | | U6 TRANSFORMER | U6 DISCONNECT & DISMANTLE 6.50 MVA, 13.2KV/ 2.4KV | 1.00 EA | - | - | | 52 | 76.83 /MH | 3,995 | 3,995 |
| | | | U6 TRANSFORMER | U6 DISCONNECT 5 / 6.250 MVA, 13.2KV/ 2.4KV, EF TRANSFORMER | 1.00 EA | - | | | 56 | 76.83 /MH | 4,302 | 4,302 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 385 | | 30,683 | 30,683 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - MISC | | 6.00 TN | - | - | | 132 | 106.72 /MH | 14,087 | 14,087 |
| | | | CABLE | | | | | | 132 | | 14,087 | 14,087 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | BUILDING WASTE DISPOSAL ALLOWANCE | | 1,076.00 CY | - | - | | 377 | 116.90 /MH | 44,025 | 44,025 |
| | | | WASTE | | | | | | 377 | | 44,025 | 44,025 |
| | | | DEMOLITION | | | | | | 20,326 | | 1,748,806 | 1,748,806 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | U6 COAL BOILER | | -1,822.00 TN | - | (198,598) | - | | 79.92 /MH | | (198,598) |
| | | | U6 PA, ID & FD FANS | | -238.00 TN | - | (25,942) | - | | 79.92 /MH | | (25,942) |
| | | | U6 AIR HEATER | | -626.00 TN | - | (68,234) | - | | 79.92 /MH | | (68,234) |
| | | | U6 PULVERIZERS | | -358.00 TN | - | (39,022) | - | | 79.92 /MH | | (39,022) |
| | | | U6 CONDENSERS | | -88.00 TN | - | (9,592) | - | | 79.92 /MH | | (9,592) |
| | | | U6 WATER TREATING EQUIPMENT | | -91.00 TN | - | (9,919) | - | | 79.92 /MH | | (9,919) |
| | | | U6 HEAT EXCHANGERS | | -169.00 TN | - | (18,421) | - | | 79.92 /MH | | (18,421) |
| | | | U6 TURBINE GENERATOR | | -783.00 TN | - | (85,347) | - | | 79.92 /MH | | (85,347) |
| | | | U6 PRECIPITATOR | | -572.00 TN | - | (62,348) | - | | 79.92 /MH | | (62,348) |
| | | | U6 DUCTWORK | | -611.00 TN | - | (66,599) | - | | 79.92 /MH | | (66,599) |
| | | | U6 ASH HANDLING EQUIPMENT | | -364.00 TN | - | (39,676) | - | | 79.92 /MH | | (39,676) |
| | | | STEEL FLY ASH SILO | | -172.00 TN | - | (18,748) | - | | 79.92 /MH | | (18,748) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 6 BOILER BLDG | | -346.00 TN | - | (37,714) | - | | 79.92 /MH | | (37,714) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 6 HEATER BAY | | -86.00 TN | - | (9,374) | - | | 79.92 /MH | | (9,374) |
| | | | STRUCTURAL AND GIRT STEEL - UNIT 6 TURBINE BLDG | | -135.00 TN | - | (14,715) | - | | 79.92 /MH | | (14,715) |
| | | | U6 SWITCHGEAR | | -78.00 TN | - | (8,502) | - | | 79.92 /MH | | (8,502) |
| | | | U6 MISC POWER PLANT EQUIP | | -206.00 TN | - | (22,454) | - | | 79.92 /MH | | (22,454) |
| | | | U6 BOILER PIPING & SUPPORTS | | -430.00 TN | - | (46,870) | - | | 79.92 /MH | | (46,870) |
| | | | U6 CIRC WATER SYSTEM | | -172.00 TN | - | (18,748) | - | | 79.92 /MH | | (18,748) |
| | | | U6 MISC. SMALL TANKS | | -65.00 TN | - | (7,085) | - | | 79.92 /MH | | (7,085) |
| | | | U6 COAL CONVEYOR | | -15.00 TN | - | (1,635) | - | | 79.92 /MH | | (1,635) |
| | | | TRANSFORMERS - NO SCRAP VALUE | | 0.00 TN | - | | - | | 79.92 /MH | | |
| | | | MIXED STEEL | | | | (809,543) | | | | | (809,543) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | U6 CABLE - MISC | | -6.00 TN | - | (20,802) | - | | 79.92 /MH | | (20,802) |
| | | | U6 TURBINE GENERATOR | | -14.00 TN | - | (48,538) | - | | 79.92 /MH | | (48,538) |
| | | | COPPER | | | | (69,340) | | | | | (69,340) |
| | | | SCRAP VALUE | | | | (878,883) | | | | | (878,883) |
| | 71.00.00 | | PROJECT INDIRECT | | | | | | | | | |
| | | 71.27.00 | FREIGHT | | | | | | | | | |
| | | | TRANSPORT TRANSFORMERS & OCB OIL CIRCUIT BREAKERS TO MADISON, IN | | 3.00 EA | 6,240 | - | | | /MH | | 6,240 |
| | | | FREIGHT | | | 6,240 | | | | | | 6,240 |
| | | | PROJECT INDIRECT | | | 6,240 | | | | | | 6,240 |
| | | | **U6 UNIT 6** | | | **6,240** | **(878,883)** | | **20,326** | | **1,748,806** | **876,163** |

# EXHIBIT 2
# Eagle Valley Station - CCGT
# Conceptual Demolition Cost Estimate No. 33897C

# INDIANAPOLIS POWER & LIGHT
# DEMOLITION COST STUDY
# EAGLE VALLEY COMBINED CYCLE ELECTRIC GENERATING STATION

| | |
|---|---|
| **Estimator** | GA |
| **Labor rate table** | 16ININD |
| **Project No.** | 10572-080 |
| **Estimate Date** | 9/28/16 |
| **Reviewed By** | RCK |
| **Approved By** | MNO |
| **Estimate No.** | 33897C |
| **Estimate Class** | Conceptual |

Estimate No.: 33897C
Project No.: 10572-080
Estimate Date: 9/28/16
Prep./Rev/App.: GA/RCK/MNO

**INDIANAPOLIS POWER & LIGHT**
**DEMOLITION COST STUDY**
**EAGLE VALLEY COMBINED CYCLE ELECTRIC GENERATING STATION**

| Group | Description | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|
| 11.00.00 | DEMOLITION | 25,153 | | | 57,667 | 5,015,170 | 5,040,323 |
| 18.00.00 | SCRAP VALUE | | (3,154,709) | | | | (3,154,709) |
| 21.00.00 | CIVIL WORK | 989,196 | | 618,698 | 1,274 | 245,638 | 1,853,532 |
| 22.00.00 | CONCRETE | | | 146,880 | 2,160 | 172,498 | 319,378 |
| 81.00.00 | OWNER COST | 501,120 | | | | | 501,120 |
| | **TOTAL DIRECT** | **1,515,470** | **(3,154,709)** | **765,578** | **61,101** | **5,433,305** | **4,559,644** |

Estimate No.: 33897C
Project No.: 10572-080
Estimate Date: 9/28/16
Prep./Rev/App.: GA/RCK/MNO

**INDIANAPOLIS POWER & LIGHT**
**DEMOLITION COST STUDY**
**EAGLE VALLEY COMBINED CYCLE ELECTRIC GENERATING STATION**

Sargent & Lundy

## Estimate Totals

| Description | Amount | Totals | Hours |
|---|---|---|---|
| **Direct Costs:** | | | |
| Labor | 5,433,305 | | 61,101 |
| Material | 765,578 | | |
| Subcontract | 1,515,470 | | |
| Scrap Value | (3,154,709) | | |
| | **4,559,644** | **4,559,644** | |
| **Other Direct & Construction** | | | |
| **Indirect Costs:** | | | |
| 91-1 Scaffolding | | | |
| 91-2 Cost Due To OT 5-10's | | | |
| 91-3 Cost Due To OT 6-10's | | | |
| 91-4 Per Diem | | | |
| 91-5 Consumables | 54,333 | | |
| 91-8 Freight on Material | 38,279 | | |
| 91-9 Freight on Process Equip | | | |
| 91-10 Sales Tax | | | |
| 91-11 Contractors G&A | 440,405 | | |
| 91-12 Contractors Profit | 629,150 | | |
| | **1,162,167** | **5,721,811** | |
| **Indirect Costs:** | | | |
| 93-1 Engineering Services | | | |
| 93-2 CM Support | | | |
| 93-3 Start-Up/Commissioning | | | |
| 93-4 Start-Up/Spare Parts | | | |
| 93-5 Excess Liability Insur. | | | |
| 93-6 Sales Tax On Indirects | | | |
| 93-7 Owners Cost | 4,025,000 | | |
| 93-8 EPC Fee | | | |
| | **4,025,000** | **9,746,811** | |
| **Contingency:** | | | |
| 94-1 Contingency on Material | 188,103 | | |
| 94-2 Contingency on Labor | 1,284,107 | | |
| 94-3 Contingency on Sub. | 303,094 | | |
| 94-6 Contingency on Scrap | 630,942 | | |
| 94-5 Contingency on Indirect | 805,000 | | |
| | **3,211,246** | **12,958,057** | |
| **Escalation:** | | | |
| 96-1 Escalation on Material | 74,760 | | |
| 96-2 Escalation on Labor | 510,357 | | |
| 96-3 Escalation on Subcontract | 120,462 | | |
| 96-4 Escalation on Scrap | 167,175 | | |
| 96-5 Escalation on Indirects | 319,940 | | |
| | **1,192,694** | **14,150,751** | |
| 98 Interest During Constr | | | |
| | | **14,150,751** | |
| ***Total*** | | ***14,150,751*** | |

Estimate No.: 33897C
Project No.: 10572-080
Estimate Date: 9/28/16
Prep/Rev/Appr: GA/RCK/MNO

**INDIANAPOLIS POWER & LIGHT**
**DEMOLITION COST STUDY**
**EAGLE VALLEY COMBINED CYCLE ELECTRIC GENERATING STATION**

| Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **11.00.00** | | **DEMOLITION** | | | | | | | | | |
| | **11.21.00** | **CIVIL WORK** | | | | | | | | | |
| | | PAVED SURFACES | ROAD | 12,000.00 SY | - | - | | 1,440 | 116.90 /MH | 168,336 | 168,336 |
| | | REMOVE FENCING | | 5,836.00 LF | 25,153 | - | | | 116.90 /MH | | 25,153 |
| | | **CIVIL WORK** | | | **25,153** | | | **1,440** | | **168,336** | **193,489** |
| | **11.22.00** | **CONCRETE** | | | | | | | | | |
| | | CONCRETE FOUNDATION | STEAM TURBINE | 1,443.00 CY | - | - | | 2,208 | 88.57 /MH | 195,544 | 195,544 |
| | | CONCRETE FOUNDATION | HRSG's | 1,564.00 CY | - | - | | 1,496 | 88.57 /MH | 132,463 | 132,463 |
| | | CONCRETE FOUNDATION | MECHANICAL DRAFT COOLING TOWER | 2,225.00 CY | - | - | | 2,128 | 88.57 /MH | 188,447 | 188,447 |
| | | CONCRETE FOUNDATION | MAIN AND AUX TRANSFORMERS | 518.00 CY | - | - | | 495 | 88.57 /MH | 43,872 | 43,872 |
| | | CONCRETE FOUNDATION | AQUEOUS AMMONIA STORAGE TANK | 55.00 CY | - | - | 0 | 53 | 88.57 /MH | 4,658 | 4,658 |
| | | CONCRETE FOUNDATION | PIPE RACK FOUNDATION | 865.00 CY | - | - | | 827 | 88.57 /MH | 73,261 | 73,261 |
| | | CONCRETE FOUNDATION | WATER TREATMENT BUILDING | 796.00 CY | - | - | | 761 | 88.57 /MH | 67,417 | 67,417 |
| | | CONCRETE FOUNDATION | BOP AND MISCELLANEOUS FOUNDATION | 1,000.00 CY | - | - | | 956 | 88.57 /MH | 84,695 | 84,695 |
| | | TURBINE PEDESTAL FOUNDATION | CTG FOUNDATIONS | 3,014.00 CY | - | - | | 4,611 | 88.57 /MH | 408,433 | 408,433 |
| | | **CONCRETE** | | | | | | **13,535** | | **1,198,791** | **1,198,791** |
| | **11.23.00** | **STEEL** | | | | | | | | | |
| | | STRUCTURAL STEEL | SWITCHYARD | 200.00 TN | - | - | | 173 | 124.87 /MH | 21,568 | 21,568 |
| | | STRUCTURAL STEEL | PIPE RACK | 205.00 TN | - | - | | 177 | 124.87 /MH | 22,107 | 22,107 |
| | | STRUCTURAL STEEL | GALLERIES | 20.00 TN | - | - | | 17 | 124.87 /MH | 2,157 | 2,157 |
| | | STRUCTURAL STEEL | PIPE SUPPORTS, MISC. BRACING, ETC. | 40.00 TN | - | - | | 35 | 124.87 /MH | 4,314 | 4,314 |
| | | **STEEL** | | | | | | **402** | | **50,145** | **50,145** |
| | **11.24.00** | **ARCHITECTURAL** | | | | | | | | | |
| | | WATER TREATMENT BUILDING | | 128,760.00 CF | - | - | | 515 | 91.16 /MH | 46,951 | 46,951 |
| | | CONTROL ROOM, DCS/ELEC ROOM | 50' X 40' X 20' | 40,000.00 CF | - | - | | 160 | 91.16 /MH | 14,586 | 14,586 |
| | | FIRE PUMP BUILDING | 30' X 14' X 10' | 4,200.00 CF | - | - | | 17 | 91.16 /MH | 1,531 | 1,531 |
| | | WAREHOUSE / CHEM STORAGE BUILDING | 60' X 40' X 25' | 60,000.00 CF | - | - | | 240 | 91.16 /MH | 21,878 | 21,878 |
| | | COMBUSTION TURBINE BUILDING -A | 265' X 105' X 120' H | 3,339,000.00 CF | - | - | | 6,678 | 91.16 /MH | 608,766 | 608,766 |
| | | COMBUSTION TURBINE BUILDING -B | 82' X 38' X 50' H | 155,800.00 CF | - | - | | 623 | 91.16 /MH | 56,811 | 56,811 |
| | | STEAM TURBINE BUILDING | 166' X 81' X 75' H | 1,008,450.00 CF | - | - | | 2,017 | 91.16 /MH | 183,861 | 183,861 |
| | | ADMINISTRATION AREA | 75' X 40' X 20' | 60,000.00 CF | - | - | | 240 | 91.16 /MH | 21,878 | 21,878 |
| | | AUX BOILER BUILDING | 38' X 46' X 25' | 43,700.00 CF | - | - | | 175 | 91.16 /MH | 15,935 | 15,935 |
| | | GUARD HOUSE | 30' X 20' 10' | 6,000.00 CF | - | - | | 24 | 91.16 /MH | 2,188 | 2,188 |
| | | BOILER FEEDWATER PUMP BUILDING | 24' X 12' X 16' | 4,608.00 CF | - | - | | 18 | 91.16 /MH | 1,680 | 1,680 |
| | | SWITCHYARD CONTROL HOUSE | 24' X 12' X 16' | 4,608.00 CF | - | - | | 18 | 91.16 /MH | 1,680 | 1,680 |
| | | HRSG POWER DISTRIBUTION CENTER | 24' X 12' X 16' | 4,608.00 CF | - | - | | 18 | 91.16 /MH | 1,680 | 1,680 |
| | | DIESEL GENERATOR POWER DISTRIBUTION CENTER | 24' X 12' X 16' | 4,608.00 CF | - | - | | 18 | 91.16 /MH | 1,680 | 1,680 |
| | | DEMIN & SERVICE WATER PUMPHOUSE | 24' X 12' X 16' | 4,608.00 CF | - | - | | 18 | 91.16 /MH | 1,680 | 1,680 |
| | | COOLING TOWER CHEMICAL ENCLOSURE | 24' X 12' X 16' | 4,608.00 CF | - | - | | 18 | 91.16 /MH | 1,680 | 1,680 |
| | | **ARCHITECTURAL** | | | | | | **10,799** | | **984,467** | **984,467** |
| | **11.31.00** | **MECHANICAL EQUIPMENT** | | | | | | | | | |
| | | COMBUSTION TURBINE GENERATOR PACKAGE | 2 EACH | 1,800.00 TN | - | - | | 4,131 | 82.99 /MH | 342,832 | 342,832 |
| | | STEAM TURBINE | 1 EACH | 850.00 TN | - | - | | 1,951 | 82.99 /MH | 161,893 | 161,893 |
| | | HRSG | 2 EACH | 7,156.00 TN | - | - | | 16,423 | 82.99 /MH | 1,362,946 | 1,362,946 |
| | | CT INLET CHILLER COMPRESSORS | 2 EACH | 440.00 TN | - | - | | 1,010 | 82.99 /MH | 83,803 | 83,803 |
| | | AIR COMPRESSORS | 2 EACH | 9.00 TN | - | - | | 21 | 82.99 /MH | 1,714 | 1,714 |
| | | STEEL TANK, 40 FT DIA. X 33 FT HIGH | DEMIN WATER AND CONDENSATE STORAGE TANKS, 2 TANKS | 68.00 TN | - | - | | 156 | 82.99 /MH | 12,951 | 12,951 |
| | | STEEL TANK, 60 FT DIA. X 28 FT HIGH | RAW WATER / FIRE WATER STORAGE TANK | 62.00 TN | - | - | | 142 | 82.99 /MH | 11,809 | 11,809 |
| | | PUMPS | | 25.00 TN | - | - | | 57 | 82.99 /MH | 4,762 | 4,762 |
| | | AQUEOUS AMMONIA STORAGE TANK | | 5.00 TN | - | - | | 11 | 82.99 /MH | 952 | 952 |
| | | CONDENSATE COLLECTION TANK | | 4.00 TN | - | - | | 9 | 82.99 /MH | 762 | 762 |
| | | CONDENSER | | 200.00 TN | - | - | | 459 | 82.99 /MH | 38,092 | 38,092 |
| | | FUEL GAS PREHEATER | | 1.00 TN | - | - | | 2 | 82.99 /MH | 190 | 190 |
| | | WATER TREATMENT EQUIPMENT | | 30.00 TN | - | - | | 69 | 82.99 /MH | 5,714 | 5,714 |
| | | MECHANICAL DRAFT COOLING TOWER | 10 CELLS, 240' X 80' X 40' | 767,880.00 CF | - | - | | 1,536 | 82.99 /MH | 127,453 | 127,453 |
| | | **MECHANICAL EQUIPMENT** | | | | | | **25,978** | | **2,155,874** | **2,155,874** |
| | **11.35.00** | **PIPING** | | | | | | | | | |
| | | ABOVEGROUND PIPING | | 565.00 TN | - | - | | 1,297 | 82.99 /MH | 107,611 | 107,611 |
| | | **PIPING** | | | | | | **1,297** | | **107,611** | **107,611** |
| | **11.41.00** | **ELECTRICAL EQUIPMENT** | | | | | | | | | |
| | | STEP UP TRANSFORMERS | 3 EACH | 405.00 TN | - | - | | 929 | 82.99 /MH | 77,137 | 77,137 |
| | | AUXILIARY TRANSFORMER | 1 EACH | 10.00 TN | - | - | | 23 | 82.99 /MH | 1,905 | 1,905 |

Estimate No.: 33897C
Project No.: 10572-080
Estimate Date: 9/28/16
Prep/Rev/Appr: GA/RCK/MNO

**INDIANAPOLIS POWER & LIGHT**
**DEMOLITION COST STUDY**
**EAGLE VALLEY COMBINED CYCLE ELECTRIC GENERATING STATION**

| Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | MISC. ELECTRICAL EQUIPMENT | | 18.00 TN | - | - | | 41 | 82.99 /MH | 3,428 | 3,428 |
| | | SWITCHYARD EQUIPMENT AND STRUCTURES | | 200.00 TN | - | - | | 459 | 82.99 /MH | 38,092 | 38,092 |
| | | ALUMINUM BUS, 4 IN DIA. SCH 80 | | 12,000.00 LB | - | - | | 240 | 82.99 /MH | 19,918 | 19,918 |
| | | ISO PHASE BUS 13.8 KV | | 960.00 LF | - | - | | 192 | 82.99 /MH | 15,934 | 15,934 |
| | | ELECTRICAL EQUIPMENT | | | | | | 1,885 | | 156,414 | 156,414 |
| | 11.42.00 | RACEWAY, CABLE TRAY, & CONDUIT | | | | | | | | | |
| | | CONDUIT | | 50.00 TN | - | - | | 870 | 82.99 /MH | 72,201 | 72,201 |
| | | TRAY | | 7.00 TN | - | - | | 210 | 82.99 /MH | 17,428 | 17,428 |
| | | RACEWAY, CABLE TRAY, & CONDUIT | | | | | | 1,080 | | 89,629 | 89,629 |
| | 11.43.00 | CABLE | | | | | | | | | |
| | | TRANSMISSION CABLE, 1168 KCMIL | | 1,800.00 LF | - | - | | 72 | 82.99 /MH | 5,975 | 5,975 |
| | | MEDIUM VOLTAGE CABLE | | 58,000.00 LF | - | - | | 580 | 82.99 /MH | 48,134 | 48,134 |
| | | LOW VOLTAGE CABLE | | 200,000.00 LF | - | - | | 600 | 82.99 /MH | 49,794 | 49,794 |
| | | CABLE | | | | | | 1,252 | | 103,903 | 103,903 |
| | | **DEMOLITION** | | | **25,153** | | | **57,667** | | **5,015,170** | **5,040,323** |
| **18.00.00** | | **SCRAP VALUE** | | | | | | | | | |
| | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | STEEL | MECHANICAL EQUIPMENT | -10,583.00 TN | - | (1,153,547) | - | | /MH | | (1,153,547) |
| | | STEEL | COOLING TOWER | -20.00 TN | - | (2,180) | - | | /MH | | (2,180) |
| | | STEEL | STRUCTURAL STEEL | -2,212.00 TN | - | (241,108) | - | | /MH | | (241,108) |
| | | STEEL | PIPING | -565.00 TN | - | (61,585) | - | | /MH | | (61,585) |
| | | STEEL | SWITCHYARD EQUIPMENT AND STRUCTURES | -200.00 TN | - | (21,800) | - | | /MH | | (21,800) |
| | | STEEL | RACEWAY, CABLE TRAY, & CONDUIT | -57.00 TN | - | (6,213) | - | | /MH | | (6,213) |
| | | STEEL | STEP UP TRANSFORMERS | -155.00 TN | - | (16,895) | - | | /MH | | (16,895) |
| | | STEEL | AUXILIARY TRANSFORMER | -3.00 TN | - | (327) | - | | /MH | | (327) |
| | | STEEL | MISC. ELECTRICAL EQUIPMENT | -8.00 TN | - | (872) | - | | /MH | | (872) |
| | | STEEL | CHAIN LINK FENCE | -14.00 TN | - | (1,526) | - | | /MH | | (1,526) |
| | | MIXED STEEL | | | | (1,506,053) | | | | | (1,506,053) |
| | 18.30.00 | COPPER | | | | | | | | | |
| | | COPPER | POWER AND CONTROL CABLE | -54.00 TN | - | (187,218) | - | | /MH | | (187,218) |
| | | COPPER | COMBUSTION TURBINE AND STEAM TURBINE GENERATORS | -72.00 TN | - | (249,624) | - | | /MH | | (249,624) |
| | | COPPER | ISO PHASE BUS 13.8 KV | -80.00 TN | - | (277,360) | - | | /MH | | (277,360) |
| | | COPPER | STEP UP TRANSFORMERS | -250.00 TN | - | (866,750) | - | | /MH | | (866,750) |
| | | COPPER | AUXILIARY TRANSFORMER | -7.00 TN | - | (24,269) | - | | /MH | | (24,269) |
| | | COPPER | MISC. ELECTRICAL EQUIPMENT | -10.00 TN | - | (34,670) | - | | /MH | | (34,670) |
| | | COPPER | | | | (1,639,891) | | | | | (1,639,891) |
| | 18.50.00 | ALUMINUM | | | | | | | | | |
| | | TRANSMISSION CABLE, 1168 KCMIL | | -1,978.00 LB | - | (890) | | | - | - | (890) |
| | | ISO PHASE BUS 13.8 KV | | -5,500.00 LB | - | (2,475) | | | - | - | (2,475) |
| | | ALUMINUM BUS, 4 IN DIA. SCH 80 | | -12,000.00 LB | - | (5,400) | | | - | - | (5,400) |
| | | ALUMINUM | | | | (8,765) | | | | | (8,765) |
| | | **SCRAP VALUE** | | | | **(3,154,709)** | | | | | **(3,154,709)** |
| **21.00.00** | | **CIVIL WORK** | | | | | | | | | |
| | 21.19.00 | DISPOSAL | | | | | | | | | |
| | | DISPOSAL FEE | CONCRETE | 11,480.00 CY | 420,283 | - | | | 89.95 /MH | | 420,283 |
| | | TRANSPORTATION, 40 CY TRUCK | CONCRETE | 11,480.00 CY | 174,496 | - | | | 89.95 /MH | | 174,496 |
| | | DISPOSAL FEE | BUILDING DEBRIS | 2,000.00 CY | 47,600 | - | | | 89.95 /MH | | 47,600 |
| | | TRANSPORTATION, 40 CY TRUCK | BUILDING DEBRIS | 2,000.00 CY | 30,400 | - | | | 89.95 /MH | | 30,400 |
| | | DISPOSAL FEE | PRECAST CONCRETE TRENCH | 265.00 CY | 9,702 | - | | | 89.95 /MH | | 9,702 |
| | | TRANSPORTATION, 40 CY TRUCK | PRECAST CONCRETE TRENCH | 265.00 CY | 4,028 | - | | | 89.95 /MH | | 4,028 |
| | | DISPOSAL FEE | PAVED SURFACES | 4,800.00 CY | 175,728 | - | | | 89.95 /MH | | 175,728 |
| | | TRANSPORTATION, 40 CY TRUCK | PAVED SURFACES | 4,800.00 CY | 72,960 | - | | | 89.95 /MH | | 72,960 |
| | | DISPOSAL | | | 935,196 | | | | | | 935,196 |
| | 21.20.00 | BACKFILL | | | | | | | | | |
| | | FOUNDATION BACKFILL, IMPORTED MATERIAL FILL | BACKFILL CONCRETE FOUNDATIONS | 6,000.00 CY | | - | 102,000 | 210 | 192.84 /MH | 40,496 | 142,496 |
| | | FOUNDATION BACKFILL, IMPORTED MATERIAL FILL | PRECAST CONCRETE TRENCH, .2407 CY/LF | 265.00 CY | - | - | 4,505 | 9 | 192.84 /MH | 1,789 | 6,294 |
| | | TOPSOIL PLACEMENT, 6 IN, INCLUDES SPREADING AND COMPACTION | DISTURBED AREAS, 30 ACRES | 24,200.00 CY | | - | 411,400 | 847 | 192.84 /MH | 163,335 | 574,735 |

Estimate No.: 33897C
Project No.: 10572-080
Estimate Date: 9/28/16
Prep/Rev/Appr: GA/RCK/MNO

**INDIANAPOLIS POWER & LIGHT**
**DEMOLITION COST STUDY**
**EAGLE VALLEY COMBINED CYCLE ELECTRIC GENERATING STATION**

Sargent & Lundy

| Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 21.20.00 | BACKFILL | | | | | | | | | |
| | | FOUNDATION BACKFILL, IMPORTED MATERIAL FILL | BACKFILL PAVED SURFACES | 3,000.00 CY | | - | 51,000 | 105 | 192.84 /MH | 20,248 | 71,248 |
| | | FOUNDATION BACKFILL, IMPORTED MATERIAL FILL | BACKFILL BASINS | 2,929.00 CY | | - | 49,793 | 103 | 192.84 /MH | 19,769 | 69,562 |
| | | BACKFILL | | | | | 618,698 | 1,274 | | 245,638 | 864,336 |
| | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | SEED AND MULCH | DISTURBED AREAS | 30.00 AC | 54,000 | - | | | 78.54 /MH | | 54,000 |
| | | LANDSCAPING | | | 54,000 | | | | | | 54,000 |
| | | CIVIL WORK | | | 989,196 | | 618,698 | 1,274 | | 245,638 | 1,853,532 |
| 22.00.00 | | CONCRETE | | | | | | | | | |
| | 22.13.00 | CONCRETE | | | | | | | | | |
| | | FLOWABLE FILL, 2000 PSI | BURIED CIRC WATER PIPE | 1,440.00 CY | - | - | 146,880 | 2,160 | 79.86 /MH | 172,498 | 319,378 |
| | | CONCRETE | | | | | 146,880 | 2,160 | | 172,498 | 319,378 |
| | | CONCRETE | | | | | 146,880 | 2,160 | | 172,498 | 319,378 |
| 81.00.00 | | OWNER COST | | | | | | | | | |
| | 81.99.00 | OWNER COST, MISCELLANEOUS | | | | | | | | | |
| | | IPL STAFF - ENGINEER, 1 PERSON | $120/HR FOR 24 MONTHS | 1.00 LS | 501,120 | - | | | /MH | | 501,120 |
| | | OWNER COST, MISCELLANEOUS | | | 501,120 | | | | | | 501,120 |
| | | OWNER COST | | | 501,120 | | | | | | 501,120 |

# EXHIBIT 3
# Harding Street Station
# Conceptual Demolition Cost Estimate No. 32707I

# INDIANAPOLIS POWER & LIGHT
# HARDING STREET DECOMMISSIONING
# CONCEPTUAL ESTIMATE

| | |
|---|---|
| **Estimator** | RCK, |
| **Labor rate table** | 16ININD |
| **Project No.** | 10572-097 |
| **Client** | IPL |
| **Station Name** | HARDING STREET |
| **Estimate Date** | 9/30/2016 |
| **Reviewed By** | GA |
| **Approved By** | MNO |
| **Estimate No.** | 32707I |
| **Estimate Class** | Conceptual |

Estimate No.: 32707I
Project No.: 10572-097
Estimate Date: 9/30/2016
Prep/Rev/App: RCK, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Description | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|
| ASH | ASH PONDS | 15,317,585 | | 30,000 | 38,191 | 7,183,291 | 22,530,876 |
| BESA | BATTERY ENERGY STORAGE ARRAY | | (232,853) | | 3,684 | 341,621 | 108,768 |
| CH | COAL HANDLING | 1,214,975 | (93,740) | 7,537,798 | 24,714 | 3,653,593 | 12,312,626 |
| COMMON | COMMON | 4,492,251 | (74,894) | 2,136,356 | 29,078 | 3,113,633 | 9,667,346 |
| DWTR | ASH POND DEWATERING | 2,527,600 | | 111,872 | 1,570 | 132,205 | 2,771,677 |
| HSS1 | UNIT 1 | | (492,998) | | 8,003 | 786,339 | 293,340 |
| HSS2 | UNIT 2 | | (492,998) | | 7,882 | 775,909 | 282,911 |
| HSS3 | UNIT 3 | | (554,786) | | 9,093 | 894,112 | 339,327 |
| HSS4 | UNIT 4 | | (554,786) | 7,956 | 9,254 | 907,656 | 360,827 |
| HSS5 | UNIT 5 | | (1,046,898) | 7,956 | 18,520 | 1,821,809 | 782,867 |
| HSS6 | UNIT 6 | | (1,042,320) | 7,956 | 18,431 | 1,813,279 | 778,915 |
| HSS7 | UNIT 7 | | (7,476,484) | 54,400 | 102,781 | 9,867,363 | 2,445,279 |
| HSSGT 1,2,3 | GAS UNITS 1,2 AND 3 | | (98,606) | | 1,471 | 143,750 | 45,144 |
| HSSGT4 | GAS UNIT 4 | | (215,948) | | 2,725 | 267,066 | 51,118 |
| HSSGT5 | GAS UNIT 5 | | (215,948) | | 2,891 | 282,880 | 66,932 |
| HSSGT6 | GAS UNIT 6 | | (325,790) | | 5,026 | 482,404 | 156,614 |
| SWYD | SWITCHYARD | 477,491 | | 414,057 | 15,644 | 1,407,200 | 2,298,748 |
| | **TOTAL DIRECT** | **24,029,902** | **(12,919,048)** | **10,308,351** | **298,961** | **33,874,112** | **55,293,317** |

Estimate No.: 32707I
Project No.: 10572-097
Estimate Date: 9/30/2016
Prep/Rev/App: RCK, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

## Estimate Totals

| Description | Amount | Totals | Hours |
|---|---|---|---|
| **Direct Costs:** | | | |
| Labor | 33,874,112 | | 298,961 |
| Material | 10,308,351 | | |
| Subcontract | 24,029,902 | | |
| Scrap | (12,919,048) | | |
| | **55,293,317** | **55,293,317** | |
| **Other Direct & Construction Indirect Costs:** | | | |
| 91-1 Scaffolding | | | |
| 91-2 Cost Due To OT 5-10's | | | |
| 91-3 Cost Due To OT 6-10's | | | |
| 91-4 Per Diem | | | |
| 91-5 Consumables | 338,741 | | |
| 91-6 Freight on Material | 515,418 | | |
| 91-7 Freight on Scrap | | | |
| 91-8 Sales Tax | | | |
| 91-9 Contractors G&A | 3,152,564 | | |
| 91-10 Contractors Profit | 4,503,662 | | |
| | **8,510,385** | **63,803,702** | |
| **Indirect Costs:** | | | |
| 93-1 Engineering Services | | | |
| 93-2 CM Support | | | |
| 93-3 Start-Up/Commissioning | | | |
| 93-4 Start-Up/Spare Parts | | | |
| 93-5 Excess Liability Insur. | | | |
| 93-6 Sales Tax On Indirects | | | |
| 93-7 Owners Cost | 13,690,059 | | |
| 93-8 EPC Fee | | | |
| | **13,690,059** | **77,493,761** | |
| **Contingency:** | | | |
| 94-1 Contingency on Material | 2,532,762 | | |
| 94-2 Contingency on Labor | 8,005,808 | | |
| 94-3 Contingency on Sub. | 4,805,980 | | |
| 94-4 Contingency on Scrap | 2,583,810 | | |
| 94-5 Contingency on Indirect | 2,738,012 | | |
| | **20,666,372** | **98,160,133** | |
| **Escalation:** | | | |
| 96-1 Escalation on Material | 1,245,877 | | |
| 96-2 Escalation on Labor | 3,938,093 | | |
| 96-3 Escalation on Subcontract | 2,364,084 | | |
| 96-4 Escalation on Scrap | 847,325 | | |
| 96-5 Escalation on Indirects | 1,346,840 | | |
| | **9,742,219** | **107,902,352** | |
| 98 Interest During Constr | | | |
| | | **107,902,352** | |
| ***Total*** | | ***107,902,352*** | |

Estimate No..: 32707I
Project No.: 10572-097
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**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASH** | | | **ASH PONDS** | | | | | | | | | |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.20.00 | BACKFILL | | | | | | | | | |
| | | | SAND LAYER, PLACE AND COMPACT, 6 IN DEEP | | 71,000.00 CY | 1,963,150 | - | | | /MH | | 1,963,150 |
| | | | CLAY LAYER, PLACE AND COMPACT, 24 IN DEEP | | 281,000.00 CY | 7,418,400 | - | | | /MH | | 7,418,400 |
| | | | TOPSOIL LAYER, PLACE AND COMPACT, 6 IN DEEP | | 70,333.00 CY | 2,029,810 | - | | | /MH | | 2,029,810 |
| | | | BACKFILL | | | 11,411,360 | | | | | | 11,411,360 |
| | | 21.45.00 | GRADING | | | | | | | | | |
| | | | REGRADE AND COMPACT EXISTING ASH | | 953,000.00 CY | - | - | | 36,691 | 192.84 /MH | 7,075,396 | 7,075,396 |
| | | | GRADING | | | | | | 36,691 | | 7,075,396 | 7,075,396 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | HYDRO SEED, FERTILIZE & MULCH | | 87.00 AC | 218,979 | - | | | /MH | | 218,979 |
| | | | LANDSCAPING | | | 218,979 | | | | | | 218,979 |
| | | 21.55.00 | POND, CONTAINMENT COVER | | | | | | | | | |
| | | | GEOMEMBRANE, LLDPE 40 MIL THK | | 465,000.00 SY | 1,860,000 | - | | | 78.54 /MH | | 1,860,000 |
| | | | GEOTEXTILE, 12 OZ/SY | | 465,000.00 SY | 930,000 | - | | | 78.54 /MH | | 930,000 |
| | | | POND, CONTAINMENT COVER | | | 2,790,000 | | | | | | 2,790,000 |
| | | 21.75.00 | WELL | | | | | | | | | |
| | | | GROUND WATER MONITORING WELL | ALLOWANCE | 18.00 EA | 56,160 | - | | | /MH | | 56,160 |
| | | | WELL | | | 56,160 | | | | | | 56,160 |
| | | 21.99.00 | CIVIL WORK, MISCELLANEOUS | | | | | | | | | |
| | | | DEWATERING | ASH PONDS | 1.00 LS | - | - | 30,000 | 1,500 | 71.93 /MH | 107,895 | 137,895 |
| | | | CIVIL WORK, MISCELLANEOUS | | | | | 30,000 | 1,500 | | 107,895 | 137,895 |
| | | | CIVIL WORK | | | 14,476,499 | | 30,000 | 38,191 | | 7,183,291 | 21,689,790 |
| | 71.00.00 | | PROJECT INDIRECT | | | | | | | | | |
| | | 71.41.00 | PERMIT | | | | | | | | | |
| | | | PERMIT COST | | 1.00 LS | 156,000 | - | | | /MH | | 156,000 |
| | | | PERMIT | | | 156,000 | | | | | | 156,000 |
| | | | PROJECT INDIRECT | | | 156,000 | | | | | | 156,000 |
| | 81.00.00 | | OWNER COST | | | | | | | | | |
| | | 81.99.00 | OWNER COST, MISCELLANEOUS | | | | | | | | | |
| | | | GROUND WATER SAMPLING AND ANALYSIS | FUTURE VALUE OF $14,400/YR, 30YR, @3%/YR | 1.00 LS | 685,086 | - | | | /MH | | 685,086 |
| | | | OWNER COST, MISCELLANEOUS | | | 685,086 | | | | | | 685,086 |
| | | | OWNER COST | | | 685,086 | | | | | | 685,086 |
| | | | **ASH ASH PONDS** | | | **15,317,585** | | **30,000** | **38,191** | | **7,183,291** | **22,530,876** |
| **BESA** | | | **BATTERY ENERGY STORAGE ARRAY** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - BESA BUILDING, 191'X67.7' FOUNDATION | | 479.00 CY | - | - | | 458 | 93.44 /MH | 42,800 | 42,800 |
| | | | CONCRETE | | | | | | 458 | | 42,800 | 42,800 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - BESA BUILDING | TILTUP SLAB | 535,500.00 CF | - | - | | 2,142 | 85.54 /MH | 183,227 | 183,227 |
| | | | ARCHITECTURAL | | | | | | 2,142 | | 183,227 | 183,227 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - BESA MISC AND AC SYSTEM | | 14.00 TN | - | - | | 24 | 99.95 /MH | 2,408 | 2,408 |
| | | | MECHANICAL EQUIPMENT | | | | | | 24 | | 2,408 | 2,408 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - BESA ELECTRICAL INVERTERS | | 22.60 TN | - | - | | 51 | 99.95 /MH | 5,130 | 5,130 |
| | | | ELECTRICAL EQUIPMENT - BESA TRANSFORMER & SWITCHGEAR - STEEL | | 52.50 TN | - | - | | 119 | 99.95 /MH | 11,917 | 11,917 |
| | | | ELECTRICAL EQUIPMENT - BESA TRANSFORMER - COPPER | | 5.40 TN | - | - | | 12 | 99.95 /MH | 1,226 | 1,226 |
| | | | ELECTRICAL EQUIPMENT - BESA BATTERIES | | 258.60 TN | - | - | | 587 | 99.95 /MH | 58,701 | 58,701 |

Estimate No..: 32707I
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**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ELECTRICAL EQUIPMENT | | | | | | 770 | | 76,974 | 76,974 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - BESA WIRING | | 29.00 TN | - | - | | 290 | 124.87 /MH | 36,212 | 36,212 |
| | | | CABLE | | | | | | 290 | | 36,212 | 36,212 |
| | | | DEMOLITION | | | | | | 3,684 | | 341,621 | 341,621 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - BESA TRANSFORMER & SWITCHGEAR - STEEL | STEEL SALVAGE | -52.50 TN | - | (5,722) | - | | 115.91 /MH | | (5,722) |
| | | | ELECTRICAL EQUIPMENT - BESA ELECTRICAL INVERTERS | STEEL SALVAGE | -26.60 TN | - | (2,899) | - | | 115.91 /MH | | (2,899) |
| | | | MECHANICAL EQUIPMENT - BESA MISC MECHANICAL AND AC | STEEL SALVAGE | -14.00 TN | - | (1,526) | - | | 115.91 /MH | | (1,526) |
| | | | MIXED STEEL | | | | (10,148) | | | | | (10,148) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | CABLE - BESA WIRING | CU SALVAGE | -29.00 TN | - | (100,543) | - | | 115.91 /MH | | (100,543) |
| | | | ELECTRICAL EQUIPMENT - BESA TRANSFORMER - COPPER | CU SALVAGE | -5.40 TN | - | (18,722) | - | | 115.91 /MH | | (18,722) |
| | | | COPPER | | | | (119,265) | | | | | (119,265) |
| | | 18.99.00 | MISCELLANEOUS | | | | | | | | | |
| | | | SCRAP VALUE - BESA BATTERIES | | -258.60 TN | - | (103,440) | | | 115.91 /MH | | (103,440) |
| | | | MISCELLANEOUS | | | | (103,440) | | | | | (103,440) |
| | | | SCRAP VALUE | | | | (232,853) | | | | | (232,853) |
| | | | **BESA BATTERY ENERGY STORAGE ARRAY** | | | | **(232,853)** | | **3,684** | | **341,621** | **108,768** |
| **CH** | | | **COAL HANDLING** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - COAL HANDLING BUILDING, 100'X24' | | 89.00 CY | - | - | | 85 | 93.44 /MH | 7,952 | 7,952 |
| | | | CONCRETE FOUNDATION - COAL DUMPER #1, 90'X20' | | 267.00 CY | - | - | | 255 | 93.44 /MH | 23,857 | 23,857 |
| | | | CONCRETE FOUNDATION - COAL DUMPER #2, 50'X20' | | 148.00 CY | - | - | | 142 | 93.44 /MH | 13,224 | 13,224 |
| | | | CONCRETE FOUNDATION - COAL CRUSHER HOUSES AND TRANSFER TOWERS | | 152.00 CY | - | - | | 145 | 93.44 /MH | 13,582 | 13,582 |
| | | | CONCRETE FOUNDATION - TRACK HOPPER AND TUNNEL | | 228.00 CY | - | - | | 218 | 93.44 /MH | 20,372 | 20,372 |
| | | | CONCRETE | | | | | | 845 | | 78,987 | 78,987 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - COAL HANDLING BUILDING Gypsum Storage Bldg | | 38,400.00 CF | - | - | | 154 | 85.54 /MH | 13,139 | 13,139 |
| | | | ARCHITECTURAL - COAL DUMPER #1 | | 48,600.00 CF | - | - | | 194 | 85.54 /MH | 16,629 | 16,629 |
| | | | ARCHITECTURAL - COAL DUMPER #2 | | 24,000.00 CF | - | - | | 96 | 85.54 /MH | 8,212 | 8,212 |
| | | | ARCHITECTURAL - CRUSHER HOUSES | MASONRY | 84,424.00 CF | - | - | | 338 | 85.54 /MH | 28,887 | 28,887 |
| | | | ARCHITECTURAL - COAL TRANSFER TOWERS | | 179,500.00 CF | - | - | | 718 | 85.54 /MH | 61,418 | 61,418 |
| | | | ARCHITECTURAL | | | | | | 1,500 | | 128,284 | 128,284 |
| | | 11.33.00 | MATERIAL HANDLING EQUIPMENT | | | | | | | | | |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 600A | | 40.00 TN | - | - | | 92 | 99.95 /MH | 9,175 | 9,175 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 600B | | 40.00 TN | - | - | | 92 | 99.95 /MH | 9,175 | 9,175 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 601 | | 21.00 TN | - | - | | 48 | 99.95 /MH | 4,817 | 4,817 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 602 | | 53.00 TN | - | - | | 122 | 99.95 /MH | 12,157 | 12,157 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 606 | | 11.00 TN | - | - | | 25 | 99.95 /MH | 2,523 | 2,523 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 5-BELT | | 163.00 TN | - | - | | 374 | 99.95 /MH | 37,388 | 37,388 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 701 | | 105.00 TN | - | - | | 241 | 99.95 /MH | 24,084 | 24,084 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 702 | | 61.00 TN | - | - | | 140 | 99.95 /MH | 13,992 | 13,992 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 801 | | 93.00 TN | - | - | | 213 | 99.95 /MH | 21,332 | 21,332 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 802 | | 53.00 TN | - | - | | 122 | 99.95 /MH | 12,157 | 12,157 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 803 | | 96.00 TN | - | - | | 220 | 99.95 /MH | 22,020 | 22,020 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYOR 804 | | 124.00 TN | - | - | | 285 | 99.95 /MH | 28,442 | 28,442 |
| | | | MATERIAL HANDLING EQUIPMENT - CRUSHER HOUSE 1 | | 22.00 TN | - | - | | 50 | 99.95 /MH | 5,046 | 5,046 |
| | | | MATERIAL HANDLING EQUIPMENT - CRUSHER HOUSE 2 | | 16.00 TN | - | - | | 37 | 99.95 /MH | 3,670 | 3,670 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL DUMPER 1 | | 20.00 TN | - | - | | 46 | 99.95 /MH | 4,587 | 4,587 |
| | | | MATERIAL HANDLING EQUIPMENT - COAL DUMPER 2 | | 20.00 TN | - | - | | 46 | 99.95 /MH | 4,587 | 4,587 |

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**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MATERIAL HANDLING EQUIPMENT | | | | | | 2,153 | | 215,153 | 215,153 |
| | | 11.99.00 | DEMOLITION, MISCELLANEOUS | | | | | | | | | |
| | | | DEMOLISH WATER TREATMENT CONCRETE PAD, PIPING AND ELECTRICAL FACILTIES | AFTER WATER TREATMENT IS COMPLETED | 1.00 LS | 31,200 | - | | | 124.87 /MH | | 31,200 |
| | | | DEMOLITION, MISCELLANEOUS | | | 31,200 | | | | | | 31,200 |
| | | | DEMOLITION | | | 31,200 | | | 4,498 | | 422,424 | 453,624 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MATERIAL HANDLING EQUIPMENT - COAL CONVEYORS | STEEL SALVAGE | -860.00 TN | - | (93,740) | - | | 115.91 /MH | | (93,740) |
| | | | MIXED STEEL | | | | (93,740) | | | | | (93,740) |
| | | | SCRAP VALUE | | | | (93,740) | | | | | (93,740) |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.21.00 | MASS FILL | | | | | | | | | |
| | | | MASS FILL - COMMON EARTH USING DUMP TRUCK, 14.95 ACRES -15 FEET DEEP | COAL PIT | 404,960.00 CY | - | - | 6,884,320 | 14,174 | 192.84 /MH | 2,733,237 | 9,617,557 |
| | | | MASS FILL | | | | | 6,884,320 | 14,174 | | 2,733,237 | 9,617,557 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | HYDRO SEED, FERTILIZE & MULCH | COAL PIT | 15.00 AC | 37,755 | - | 0 | | 78.54 /MH | | 37,755 |
| | | | LANDSCAPING | | | 37,755 | | | | | | 37,755 |
| | | | CIVIL WORK | | | 37,755 | | 6,884,320 | 14,174 | | 2,733,237 | 9,655,312 |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | MAT FOUNDATION LESS THAN 5FT THICK, 4500 PSI | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 444.44 CY | - | - | 53,333 | 556 | 79.86 /MH | 44,367 | 97,700 |
| | | | FLOWABLE FILL, 2000 PSI | TRACK HOPPER AND TUNNEL | 3,500.00 CY | - | - | 357,000 | 1,750 | 79.86 /MH | 139,755 | 496,755 |
| | | | CONCRETE | | | | | 410,333 | 2,306 | | 184,122 | 594,455 |
| | | 22.17.00 | FORMWORK | | | | | | | | | |
| | | | BUILT UP INSTALL & STRIP | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 540.00 SF | - | - | 1,350 | 108 | 103.36 /MH | 11,163 | 12,513 |
| | | | FORMWORK | | | | | 1,350 | 108 | | 11,163 | 12,513 |
| | | 22.23.00 | CAST IN PLACE | | | | | | | | | |
| | | | ELECTRICAL MANHOLE/ VAULT, 8 FT BY 8 FT BY 8 FT | | 1.00 EA | - | - | 7,500 | 80 | 89.95 /MH | 7,196 | 14,696 |
| | | | CAST IN PLACE | | | | | 7,500 | 80 | | 7,196 | 14,696 |
| | | 22.25.00 | REINFORCING | | | | | | | | | |
| | | | UNCOATED A615 GR60 | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 33.33 TN | - | - | 34,166 | 600 | 80.49 /MH | 48,294 | 82,460 |
| | | | REINFORCING | | | | | 34,166 | 600 | | 48,294 | 82,460 |
| | | | CONCRETE | | | | | 453,350 | 3,094 | | 250,774 | 704,124 |
| | 31.00.00 | | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | 31.93.00 | WATER TREATING | | | | | | | | | |
| | | | MOBILIZATION / DEMOBILIZATION | VENDOR TO UNLOAD AND SETUP ALL VENDOR SUPPLIED EQUIPMENT | 1.00 LS | 326,500 | - | - | | 87.84 /MH | | 326,500 |
| | | | CLARIFICATION, ULTRA FILTRATION, DEWATERING, AND OPERATION MONTHLY RENTAL COST INCLUDES: | MONTHLY RENTAL INCLUDING STAFF | 3.00 MO | 624,000 | - | - | | 87.84 /MH | | 624,000 |
| | | | EQUALIZATION / MIX TANK | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | COAGULANT FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | POLYMER FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | ACTIFLOW AQUAMOVE MOBILE CLARIFIER TRAILER | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | ORGANO-SULFIDE FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | CLARIFIED WATER MIX / FRAC TANK(S) | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | UF FEED PUMPS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | UF FEED TRAILER | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | SLUDGE COLLECTION / THICKENER TANK | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | DEWATERING POLYMER FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | SLUDGE RECYCLE PUMPS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | FILTER PRESS FEED PUMPS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | FILTER PRESS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | VEOLIA STAFF, 1 SHIFT PER DAY, WITH AUTOMATIC OPERATION | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | WATER TREATING | | | 950,500 | | | | | | 950,500 |

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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MECHANICAL EQUIPMENT | | | 950,500 | | | | | | 950,500 |
| | 35.00.00 | | PIPING | | | | | | | | | |
| | | 35.99.00 | MISCELLANEOUS | | | | | | | | | |
| | | | WATER TREATMENT SYSTEM INLET/OUTLET PIPING, DEWATERING PUMPS | | 1.00 LS | 20,800 | - | | | 100.77 /MH | | 20,800 |
| | | | INLET WATER TO W.T. SYSTEM AND POTABLE WATER FOR POLYMER MAKEDOWN AND SAFETY SHOWER), SAFETY SHOWER, SLUDGE ROLL OFF BOXES | | 1.00 LS | 26,000 | - | | | 100.77 /MH | | 26,000 |
| | | | MISCELLANEOUS | | | 46,800 | | | | | | 46,800 |
| | | | PIPING | | | 46,800 | | | | | | 46,800 |
| | 41.00.00 | | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | 41.31.00 | ELECTRICAL EQUIPMENT, GROUNDING | | | | | | | | | |
| | | | #500 KCMIL CU INSULATED STRANDED GROUND WIRE | | 250.00 LF | - | - | 2,500 | 13 | 100.00 /MH | 1,250 | 3,750 |
| | | | EXOTHERMIC WELD | | 2.00 EA | - | - | 30 | 4 | 100.00 /MH | 400 | 430 |
| | | | COPPER CLAD GROUND ROD, 20' LONG, 3/4 " DIA. | | 1.00 EA | - | - | 200 | 2 | 100.00 /MH | 200 | 400 |
| | | | ELECTRICAL EQUIPMENT, GROUNDING | | | | | 2,730 | 19 | | 1,850 | 4,580 |
| | | 41.99.00 | ELECTRICAL EQUIPMENT, MISCELLANEOUS | | | | | | | | | |
| | | | DIESEL POWERED 250KW GENERATOR | POWER SUPPLY FOR WATER TREATMENT EQUIPMENT | 60.00 DAY | 6,240 | - | | | 83.40 /MH | | 6,240 |
| | | | MISC ELECTRICAL EQUIPMENT AND LABOR | ALLOWANCE | 1.00 EA | | - | 20,800 | 180 | 100.00 /MH | 18,000 | 38,800 |
| | | | ELECTRICAL EQUIPMENT, MISCELLANEOUS | | | 6,240 | | 20,800 | 180 | | 18,000 | 45,040 |
| | | | ELECTRICAL EQUIPMENT | | | 6,240 | | 23,530 | 199 | | 19,850 | 49,620 |
| | 42.00.00 | | RACEWAY, CABLE TRAY & CONDUIT | | | | | | | | | |
| | | 42.15.37 | CONDUIT, RGS | | | | | | | | | |
| | | | 5 IN DIA INCLUDING ELBOWS, UNISTRUT SUPPORTS, AND MISC HARDWARE | | 500.00 LF | - | - | 27,525 | 564 | 80.41 /MH | 45,311 | 72,836 |
| | | | CONDUIT, RGS | | | | | 27,525 | 564 | | 45,311 | 72,836 |
| | | 42.17.00 | CONDUIT BOX | | | | | | | | | |
| | | | PULL BOX - 36" X 36" X 60" NEMA 4 (WITH UNISTRUT SUPPORT) | ONE (1) FOR CABLE SUPPORTING AND ONE (1) FOR CONDUIT RUN TRANSITION | 2.00 EA | - | - | 10,000 | 32 | 80.41 /MH | 2,573 | 12,573 |
| | | | PULL BOX - 20" X 16" X 6" NEMA 4 (WITH UNISTRUT SUPPORT) | | 1.00 EA | - | - | 750 | 10 | 80.41 /MH | 804 | 1,554 |
| | | | PULL BOX - 16" X 12" X 6" NEMA 4 (WITH UNISTRUT SUPPORT) | | 1.00 EA | - | - | 550 | 6 | 80.41 /MH | 482 | 1,032 |
| | | | CONDUIT BOX | | | | | 11,300 | 48 | | 3,860 | 15,160 |
| | | 42.18.00 | DUCT BANK | | | | | | | | | |
| | | | 36"X36" REINFORCED CONCRETE DUCT RUN WITH (6) 5" PVC AND (3) 5" RGS CONDUITS | | 200.00 LF | - | | 90,738 | 1,828 | 80.41 /MH | 146,989 | 237,727 |
| | | | DUCT BANK | | | | | 90,738 | 1,828 | | 146,989 | 237,727 |
| | | | RACEWAY, CABLE TRAY & CONDUIT | | | | | 129,563 | 2,440 | | 196,160 | 325,723 |
| | 43.00.00 | | CABLE | | | | | | | | | |
| | | 43.10.00 | CONTROL/INSTRUMENTATION/COMMUNICATION CABLE & TERMINATION | | | | | | | | | |
| | | | 300V #16 8 TW PR CU SHIELDED XLPE LSZH | | 300.00 LF | - | - | 1,068 | 11 | 100.00 /MH | 1,110 | 2,178 |
| | | | 600V #14 12/C CU XLPE LSZH | | 300.00 LF | - | - | 750 | 12 | 100.00 /MH | 1,200 | 1,950 |
| | | | #24 6 TW PR CU | | 300.00 LF | - | - | 144 | 5 | 100.00 /MH | 510 | 654 |
| | | | TERMINATION - COMPRESSION LUG, #16 AND SMALLER, 1 HOLE, COPPER | | 148.00 EA | - | - | 178 | 7 | 100.00 /MH | 740 | 918 |
| | | | TERMINATION - COMPRESSION LUG, #14, 1 HOLE, COPPER | | 48.00 EA | - | - | 82 | 5 | 100.00 /MH | 480 | 562 |
| | | | CONTROL/INSTRUMENTATION/COMMUNICATION CABLE & TERMINATION | | | | | 2,221 | 40 | | 4,040 | 6,261 |
| | | 43.40.00 | 5/8KV CABLE & TERMINATION | | | | | | | | | |
| | | | 5/8KV #750 KCMIL 1/C CU EPR TS-CPE | 6 RUNS OF 300' EACH | 1,800.00 LF | - | - | 43,326 | 162 | 100.00 /MH | 16,200 | 59,526 |
| | | | TERMINATION - COMPRESSION LUG, #750, 2 HOLE, COPPER | SPLICES | 12.00 EA | - | - | 1,488 | 109 | 100.00 /MH | 10,908 | 12,396 |
| | | | 5/8KV CABLE & TERMINATION | | | | | 44,814 | 271 | | 27,108 | 71,922 |
| | | | CABLE | | | | | 47,035 | 311 | | 31,148 | 78,183 |
| | 71.00.00 | | PROJECT INDIRECT | | | | | | | | | |
| | | 71.27.00 | FREIGHT | | | | | | | | | |
| | | | FREIGHT FOR WATER TREATMENT EQUIPMENT | NOT INCLUDED IN VENDORS COST | 1.00 LS | 3,120 | - | | | /MH | | 3,120 |

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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | FREIGHT | | | 3,120 | | | | | | 3,120 |
| | | 71.41.00 | PERMIT | | | | | | | | | |
| | | | PERMIT COST | | 1.00 LS | 52,000 | - | | | /MH | | 52,000 |
| | | | PERMIT | | | 52,000 | | | | | | 52,000 |
| | | 71.99.00 | PROJECT INDIRECT, USER DEFINED | | | | | | | | | |
| | | | MONTHLY OPERATION & MAINTENANCE COST FOR WATER TREATMENT SYSTEM | CHEMICALS, CONSUMABLE, POWER, DISSPOSAL, SPARE PARTS | 3.00 MO | 87,360 | - | | | /MH | | 87,360 |
| | | | PROJECT INDIRECT, USER DEFINED | | | 87,360 | | | | | | 87,360 |
| | | | PROJECT INDIRECT | | | 142,480 | | | | | | 142,480 |
| | | | **CH COAL HANDLING** | | | **1,214,975** | **(93,740)** | **7,537,798** | **24,714** | | **3,653,593** | **12,312,626** |
| **COMMON** | | | **COMMON** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.21.00 | CIVIL WORK | | | | | | | | | |
| | | | CIVIL WORK - PAVEMENT & ROADWAY ASPHALT REMOVAL | | 16,133.00 SY | - | - | | 1,613 | 116.90 /MH | 188,595 | 188,595 |
| | | | CIVIL WORK | | | | | | 1,613 | | 188,595 | 188,595 |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - BACK OF UNITS 1-4 SHOPS, 325'X50' | | 602.00 CY | - | - | | 576 | 93.44 /MH | 53,790 | 53,790 |
| | | | CONCRETE FOUNDATION - CONTROL HOUSE, 40'X35' | | 52.00 CY | - | - | | 50 | 93.44 /MH | 4,646 | 4,646 |
| | | | CONCRETE FOUNDATION - STORAGE SHED BY TRAILERS, 60'X20' | | 44.00 CY | - | - | | 42 | 93.44 /MH | 3,931 | 3,931 |
| | | | CONCRETE FOUNDATION - OFFICE BUILDING, 155'X30' | | 172.00 CY | - | - | | 164 | 93.44 /MH | 15,369 | 15,369 |
| | | | CONCRETE FOUNDATION - STORAGE BUILDING BY COOLING TOWERS, 140'X35' | | 181.00 CY | - | - | | 173 | 93.44 /MH | 16,173 | 16,173 |
| | | | CONCRETE FOUNDATION - CHEMICAL BUILDING BY COOLING TOWERS, 65'X30' | | 72.00 CY | - | - | | 69 | 93.44 /MH | 6,433 | 6,433 |
| | | | CONCRETE FOUNDATION - CHLORINE BUILDING, 38'X30' | | 42.00 CY | - | - | | 40 | 93.44 /MH | 3,753 | 3,753 |
| | | | CONCRETE FOUNDATION - STORE BUILDING, 170'X105' | | 661.00 CY | - | - | | 632 | 93.44 /MH | 59,062 | 59,062 |
| | | | CONCRETE FOUNDATION - STORAGE BUILDING BY WATER TOWER, 65'X40' | | 96.00 CY | - | - | | 92 | 93.44 /MH | 8,578 | 8,578 |
| | | | CONCRETE FOUNDATION - LARGE COOLING TOWER 1 BASIN, 260'X50' | | 2,011.00 CY | - | - | | 1,923 | 93.44 /MH | 179,687 | 179,687 |
| | | | CONCRETE FOUNDATION - LARGE COOLING TOWER 2 BASIN, 260'X50' | | 2,011.00 CY | - | - | 0 | 1,923 | 93.44 /MH | 179,687 | 179,687 |
| | | | CONCRETE FOUNDATION - SMALL COOLING TOWER 1 BASIN, 140'X40' | | 952.00 CY | - | - | 0 | 910 | 93.44 /MH | 85,063 | 85,063 |
| | | | CONCRETE FOUNDATION - SMALL COOLING TOWER 2 BASIN, 110'X45' | | 831.00 CY | - | - | 0 | 795 | 93.44 /MH | 74,252 | 74,252 |
| | | | CONCRETE FOUNDATION - OLD COOLING TOWER BASIN, 100'X130' | | 1,263.00 CY | - | - | 0 | 1,208 | 93.44 /MH | 112,852 | 112,852 |
| | | | CONCRETE FOUNDATION - CRIB HOUSE, 105'X28' | | 109.00 CY | - | - | 0 | 104 | 93.44 /MH | 9,739 | 9,739 |
| | | | CONCRETE FOUNDATION - CIRCULATING WATER PUMPHOUSE, 50'X40' | | 74.00 CY | - | - | 0 | 71 | 93.44 /MH | 6,612 | 6,612 |
| | | | CONCRETE FOUNDATION - OIL AND WATER TANK FDNS | | 678.00 CY | - | - | | 1,037 | 93.44 /MH | 96,929 | 96,929 |
| | | | CONCRETE FOUNDATION - MISC. FOUNDATIONS | | 400.00 CY | - | - | | 383 | 93.44 /MH | 35,741 | 35,741 |
| | | | CONCRETE FOUNDATION - TRANSFORMER FOUNDATIONS & FIRE WALLS | | 300.00 CY | - | - | | 287 | 93.44 /MH | 26,806 | 26,806 |
| | | | CONCRETE | | | | | | 10,478 | | 979,101 | 979,101 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - BACK OF UNITS 1-4 SHOPS | | 357,500.00 CF | - | - | | 1,430 | 85.54 /MH | 122,322 | 122,322 |
| | | | ARCHITECTURAL - CONTROL HOUSE CONTROL HOUSE | | 22,400.00 CF | - | - | | 90 | 85.54 /MH | 7,664 | 7,664 |
| | | | ARCHITECTURAL - STORAGE SHED BY TRAILERS Gypsum Storage Bldg | | 12,000.00 CF | - | - | | 48 | 85.54 /MH | 4,106 | 4,106 |
| | | | ARCHITECTURAL - OFFICE BUILDING Gypsum Storage Bldg | | 74,400.00 CF | - | - | | 298 | 85.54 /MH | 25,457 | 25,457 |
| | | | ARCHITECTURAL - STORAGE BUILDING BY COOLING TOWERS Gypsum Storage Bldg | | 98,800.00 CF | - | - | | 395 | 85.54 /MH | 33,805 | 33,805 |
| | | | ARCHITECTURAL - CHEMICAL BUILDING BY COOLING TOWERS | | 39,000.00 CF | - | - | | 156 | 85.54 /MH | 13,344 | 13,344 |
| | | | ARCHITECTURAL - CHLORINE BUILDING Gypsum Storage Bldg | | 15,960.00 CF | - | - | | 64 | 85.54 /MH | 5,461 | 5,461 |
| | | | ARCHITECTURAL - STORE BUILDING Gypsum Storage Bldg | | 535,500.00 CF | - | - | | 2,142 | 85.54 /MH | 183,227 | 183,227 |

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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - STORAGE BUILDING BY WATER TOWER | | 62,400.00 CF | - | - | | 250 | 85.54 /MH | 21,351 | 21,351 |
| | | | ARCHITECTURAL - CRIB HOUSE | | 88,200.00 CF | - | - | | 353 | 85.54 /MH | 30,179 | 30,179 |
| | | | ARCHITECTURAL - CIRCULATING WATER PUMPHOUSE | | 36,000.00 CF | - | - | | 144 | 85.54 /MH | 12,318 | 12,318 |
| | | | ARCHITECTURAL | | | | | | 5,369 | | 459,233 | 459,233 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - LARGE COOLING TOWERS | | 1,040,000.00 CF | - | - | 0 | 4,160 | 85.54 /MH | 355,846 | 355,846 |
| | | | MECHANICAL EQUIPMENT - SMALL COOLING TOWERS | | 400,900.00 CF | - | - | 0 | 1,604 | 85.54 /MH | 137,172 | 137,172 |
| | | | MECHANICAL EQUIPMENT - FUEL OIL TANK 1 | | 33.00 TN | - | - | 0 | 57 | 99.95 /MH | 5,677 | 5,677 |
| | | | MECHANICAL EQUIPMENT - FUEL OIL TANK 2 | | 33.00 TN | - | - | 0 | 57 | 99.95 /MH | 5,677 | 5,677 |
| | | | MECHANICAL EQUIPMENT - FUEL OIL TANK 3 | | 29.30 TN | - | - | 0 | 50 | 99.95 /MH | 5,040 | 5,040 |
| | | | MECHANICAL EQUIPMENT - FUEL OIL TANK 4 | | 29.30 TN | - | - | | 50 | 99.95 /MH | 5,040 | 5,040 |
| | | | MECHANICAL EQUIPMENT - FUEL OIL TANK 5 | | 94.00 TN | - | - | | 162 | 99.95 /MH | 16,171 | 16,171 |
| | | | MECHANICAL EQUIPMENT - FUEL OIL TANK 6 | | 42.50 TN | - | - | | 73 | 99.95 /MH | 7,311 | 7,311 |
| | | | MECHANICAL EQUIPMENT - FUEL OIL TANK 7 | | 42.50 TN | - | - | | 73 | 99.95 /MH | 7,311 | 7,311 |
| | | | MECHANICAL EQUIPMENT - FUEL OIL TANK 8 | | 94.00 TN | - | - | | 162 | 99.95 /MH | 16,171 | 16,171 |
| | | | MECHANICAL EQUIPMENT - DI WATER TANK | | 31.50 TN | - | - | | 54 | 99.95 /MH | 5,419 | 5,419 |
| | | | MECHANICAL EQUIPMENT - GAS TURBINE CONSDENSATE TANK | | 35.00 TN | - | - | | 60 | 99.95 /MH | 6,021 | 6,021 |
| | | | MECHANICAL EQUIPMENT - 33,000 GALLON TANK | | 7.80 TN | - | - | | 13 | 99.95 /MH | 1,342 | 1,342 |
| | | | MECHANICAL EQUIPMENT - 50 DRIP AND DRAIN TANK | | 6.10 TN | - | - | | 10 | 99.95 /MH | 1,049 | 1,049 |
| | | | MECHANICAL EQUIPMENT - 60 DRIP AND DRAIN TANK | | 6.10 TN | - | - | | 10 | 99.95 /MH | 1,049 | 1,049 |
| | | | MECHANICAL EQUIPMENT - 50 BOILER DRAIN TANK | | 7.80 TN | - | - | | 13 | 99.95 /MH | 1,342 | 1,342 |
| | | | MECHANICAL EQUIPMENT - 7-1 SERVICE WATER TANK | | 36.00 TN | - | - | | 62 | 99.95 /MH | 6,193 | 6,193 |
| | | | MECHANICAL EQUIPMENT - 7- 2 SERVICE WATER TANK | | 36.00 TN | - | - | | 62 | 99.95 /MH | 6,193 | 6,193 |
| | | | MECHANICAL EQUIPMENT - 7-3 SERVICE WATER TANK | | 36.00 TN | - | - | | 62 | 99.95 /MH | 6,193 | 6,193 |
| | | | MECHANICAL EQUIPMENT - 50 SERVICE WATER TANK | | 7.80 TN | - | - | | 13 | 99.95 /MH | 1,342 | 1,342 |
| | | | MECHANICAL EQUIPMENT - 60 SERVICE WATER TANK | | 7.80 TN | - | - | | 13 | 99.95 /MH | 1,342 | 1,342 |
| | | | MECHANICAL EQUIPMENT - 3 MW DESEL GENERATOR SET | | 56.00 TN | - | - | | 96 | 99.95 /MH | 9,634 | 9,634 |
| | | | MECHANICAL EQUIPMENT | | | | | | 6,919 | | 608,537 | 608,537 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - REMOVE FIRE HYDRANTS - ABANDON UNDERGROUND FP PIPING | | 1.00 LS | - | - | | 300 | 99.95 /MH | 29,984 | 29,984 |
| | | | PIPING | | | | | | 300 | | 29,984 | 29,984 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | LUBE OIL - HAUL, DISPOSAL/RECYCLING, NO CHARGE | STEAM TURBINE | GAL | | - | | | 124.87 /MH | | |
| | | | LUBE OIL - HAUL, DISPOSAL/RECYCLING, NO CHARGE | MISCELLANEOUS EQUIPMENT | GAL | | - | | | 124.87 /MH | | |
| | | | FUEL OIL - HAUL, DISPOSAL/RECYCLING, NO CHARGE | FUEL OIL PIPING | GAL | | - | | | 124.87 /MH | | |
| | | | MISC. CHEMICALS - DISPOSAL | | 1,000.00 GAL | 72,800 | - | | | 124.87 /MH | | 72,800 |
| | | | TRANSPORTATION FOR NON OIL MATERIALS | | 4.00 EA | 11,648 | - | | | 124.87 /MH | | 11,648 |
| | | | MATERIALS - EMPTY 55 GALLON DRUMS | | 100.00 EA | 8,112 | - | | | 124.87 /MH | | 8,112 |
| | | | LABOR CREW FOR WASTE COLLECTING AND PACKAGING | | 320.00 HR | 103,168 | - | | | 124.87 /MH | | 103,168 |
| | | | WASTE | | | 195,728 | | | | | | 195,728 |
| | | 11.99.00 | DEMOLITION, MISCELLANEOUS | | | | | | | | | |
| | | | DEMOLITION - ASBESTOS REMOVAL/DISPOSAL | SUBCONTRACTED COST | 1.00 LS | 2,695,000 | - | | | 124.87 /MH | | 2,695,000 |
| | | | DEMOLITION, MISCELLANEOUS | | | 2,695,000 | | | | | | 2,695,000 |
| | | | DEMOLITION | | | 2,890,728 | | | 24,680 | | 2,265,450 | 5,156,178 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - 3 MW DIESEL GENERATOR SET | STEEL SALVAGE | -56.00 TN | - | (6,104) | - | | 115.91 /MH | | (6,104) |
| | | | MIXED STEEL - FUEL OIL TANK 1 | STEEL SALVAGE | -33.00 TN | - | (3,597) | - | | 115.91 /MH | | (3,597) |
| | | | MIXED STEEL - FUEL OIL TANK 2 | STEEL SALVAGE | -33.00 TN | - | (3,597) | - | | 115.91 /MH | | (3,597) |
| | | | MIXED STEEL - FUEL OIL TANK 3 | STEEL SALVAGE | -29.30 TN | - | (3,194) | - | | 115.91 /MH | | (3,194) |
| | | | MIXED STEEL - FUEL OIL TANK 4 | STEEL SALVAGE | -29.30 TN | - | (3,194) | - | | 115.91 /MH | | (3,194) |
| | | | MIXED STEEL - FUEL OIL TANK 5 | STEEL SALVAGE | -94.00 TN | - | (10,246) | - | | 115.91 /MH | | (10,246) |
| | | | MIXED STEEL - FUEL OIL TANK 6 | STEEL SALVAGE | -42.50 TN | - | (4,632) | - | | 115.91 /MH | | (4,632) |
| | | | MIXED STEEL - FUEL OIL TANK 7 | STEEL SALVAGE | -42.50 TN | - | (4,632) | - | | 115.91 /MH | | (4,632) |
| | | | MIXED STEEL - FUEL OIL TANK 8 | STEEL SALVAGE | -94.00 TN | - | (10,246) | - | | 115.91 /MH | | (10,246) |
| | | | MIXED STEEL - DI WATER TANK | STEEL SALVAGE | -31.50 TN | - | (3,433) | - | | 115.91 /MH | | (3,433) |

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Sargent & Lundy

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MIXED STEEL - UNIT 5 CONDENSATE TANK | STEEL SALVAGE | -7.80 TN | - | (850) | - | | 115.91 /MH | | (850) |
| | | | MIXED STEEL - UNIT 6 CONDENSATE TANK | STEEL SALVAGE | -7.80 TN | - | (850) | - | | 115.91 /MH | | (850) |
| | | | MIXED STEEL - GAS TURBINE CONDENSATE TANK | STEEL SALVAGE | -35.00 TN | - | (3,815) | - | | 115.91 /MH | | (3,815) |
| | | | MIXED STEEL - 33,000 GALLON TANK | STEEL SALVAGE | -7.80 TN | - | (850) | - | | 115.91 /MH | | (850) |
| | | | MIXED STEEL - 50 DRIP AND DRAIN TANK | STEEL SALVAGE | -6.10 TN | - | (665) | - | | 115.91 /MH | | (665) |
| | | | MIXED STEEL - 60 DRIP AND DRAIN TANK | STEEL SALVAGE | -6.10 TN | - | (665) | - | | 115.91 /MH | | (665) |
| | | | MIXED STEEL - 50 BOILER DRAIN TANK | STEEL SALVAGE | -7.80 TN | - | (850) | - | | 115.91 /MH | | (850) |
| | | | MIXED STEEL - 7-1 SERVICE WATER TANK | STEEL SALVAGE | -36.00 TN | - | (3,924) | - | | 115.91 /MH | | (3,924) |
| | | | MIXED STEEL - 7-2 SERVICE WATER TANK | STEEL SALVAGE | -36.00 TN | - | (3,924) | - | | 115.91 /MH | | (3,924) |
| | | | MIXED STEEL - 7-3 SERVICE WATER TANK | STEEL SALVAGE | -36.00 TN | - | (3,924) | - | | 115.91 /MH | | (3,924) |
| | | | MIXED STEEL - 50 SERVICE WATER TANK | STEEL SALVAGE | -7.80 TN | - | (850) | - | | 115.91 /MH | | (850) |
| | | | MIXED STEEL - 60 SERVICE WATER TANK | STEEL SALVAGE | -7.80 TN | - | (850) | - | | 115.91 /MH | | (850) |
| | | | MIXED STEEL | | | | (74,894) | | | | | (74,894) |
| | | | SCRAP VALUE | | | | (74,894) | | | | | (74,894) |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.21.00 | MASS FILL | | | | | | | | | |
| | | | MASS FILL, COMMON EARTH USING DUMP TRUCK, 39 ACRES, 2 FEET | MAIN PLANT AND TANK AREA | 125,668.00 CY | - | - | 2,136,356 | 4,398 | 192.84 /MH | 848,184 | 2,984,540 |
| | | | MASS FILL | | | | | 2,136,356 | 4,398 | | 848,184 | 2,984,540 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | HYDRO SEED, FERTILIZE & MULCH | PLANT AND TANK AREA | 39.00 AC | 98,163 | - | 0 | | 78.54 /MH | | 98,163 |
| | | | LANDSCAPING | | | 98,163 | | | | | | 98,163 |
| | | | CIVIL WORK | | | 98,163 | | 2,136,356 | 4,398 | | 848,184 | 3,082,703 |
| | 81.00.00 | | OWNER COST | | | | | | | | | |
| | | 81.99.00 | OWNER COST, MISCELLANEOUS | | | | | | | | | |
| | | | IPL STAFF - SAFETY, 1 PERSON | $120/HR FOR 24 MONTHS | 1.00 LS | 501,120 | - | | | /MH | | 501,120 |
| | | | IPL STAFF - MANAGER, 1 PERSON | $120/HR FOR 24 MONTHS | 1.00 LS | 501,120 | - | | | /MH | | 501,120 |
| | | | IPL STAFF - PROJECT ENGINEER, 1 PERSON | $120/HR FOR 24 MONTHS | 1.00 LS | 501,120 | - | | | /MH | | 501,120 |
| | | | OWNER COST, MISCELLANEOUS | | | 1,503,360 | | | | | | 1,503,360 |
| | | | OWNER COST | | | 1,503,360 | | | | | | 1,503,360 |
| | | | COMMON COMMON | | | 4,492,251 | (74,894) | 2,136,356 | 29,078 | | 3,113,633 | 9,667,346 |
| DWTR | | | ASH POND DEWATERING | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.99.00 | DEMOLITION, MISCELLANEOUS | | | | | | | | | |
| | | | DEMOLISH WATER TREATMENT CONCRETE PAD, PIPING AND ELECTRICAL FACILTIES | AFTER WATER TREATMENT IS COMPLETED | 1.00 LS | 31,200 | - | | | 124.87 /MH | | 31,200 |
| | | | DEMOLITION, MISCELLANEOUS | | | 31,200 | | | | | | 31,200 |
| | | | DEMOLITION | | | 31,200 | | | | | | 31,200 |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | MAT FOUNDATION LESS THAN 5FT THICK, 4500 PSI | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 444.44 CY | - | - | 55,556 | 611 | 79.86 /MH | 48,803 | 104,359 |
| | | | CONCRETE | | | | | 55,556 | 611 | | 48,803 | 104,359 |
| | | 22.17.00 | FORMWORK | | | | | | | | | |
| | | | BUILT UP INSTALL & STRIP | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 540.00 SF | - | - | 1,350 | 119 | 103.36 /MH | 12,279 | 13,629 |
| | | | FORMWORK | | | | | 1,350 | 119 | | 12,279 | 13,629 |
| | | 22.25.00 | REINFORCING | | | | | | | | | |
| | | | UNCOATED A615 GR60 | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 33.33 TN | - | - | 34,166 | 660 | 80.49 /MH | 53,123 | 87,289 |
| | | | REINFORCING | | | | | 34,166 | 660 | | 53,123 | 87,289 |
| | | | CONCRETE | | | | | 91,072 | 1,390 | | 114,205 | 205,277 |
| | 31.00.00 | | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | 31.93.00 | WATER TREATING | | | | | | | | | |
| | | | MOBILIZATION / DEMOBILIZATION | VENDOR TO UNLOAD AND SETUP ALL VENDOR SUPPLIED EQUIPMENT | 1.00 LS | 260,000 | - | - | | 87.84 /MH | | 260,000 |
| | | | CLARIFICATION, ULTRA FILTRATION, DEWATERING, AND OPERATION MONTHLY RENTAL COST INCLUDES: | MONTHLY RENTAL INCLUDING STAFF | 1.00 LS | 1,914,000 | - | - | | 87.84 /MH | | 1,914,000 |
| | | | EQUALIZATION / MIX TANK | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | COAGULANT FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |

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| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 31.93.00 | WATER TREATING | | | | | | | | | |
| | | | POLYMER FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | ACTIFLOW AQUAMOVE MOBILE CLARIFIER TRAILER | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | ORGANO-SULFIDE FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | CLARIFIED WATER MIX / FRAC TANK(S) | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | UF FEED PUMPS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | UF FEED TRAILER | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | SLUDGE COLLECTION / THICKENER TANK | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | DEWATERING POLYMER FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | SLUDGE RECYCLE PUMPS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | FILTER PRESS FEED PUMPS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | FILTER PRESS | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | VEOLIA STAFF, 1 SHIFT PER DAY, WITH AUTOMATIC OPERATION | INCLUDED ABOVE | LS | - | - | - | | 87.84 /MH | | |
| | | | WATER TREATING | | | 2,174,000 | | | | | | 2,174,000 |
| | | | MECHANICAL EQUIPMENT | | | 2,174,000 | | | | | | 2,174,000 |
| | 35.00.00 | | PIPING | | | | | | | | | |
| | | 35.99.00 | MISCELLANEOUS | | | | | | | | | |
| | | | WATER TREATMENT SYSTEM INLET/OUTLET PIPING, DEWATERING PUMPS | | 1.00 LS | 20,800 | - | | | 100.77 /MH | | 20,800 |
| | | | INLET WATER TO W.T. SYSTEM AND POTABLE WATER FOR POLYMER MAKEDOWN AND SAFETY SHOWER), SAFETY SHOWER, SLUDGE ROLL OFF BOXES | | 1.00 LS | 26,000 | - | | | 100.77 /MH | | 26,000 |
| | | | MISCELLANEOUS | | | 46,800 | | | | | | 46,800 |
| | | | PIPING | | | 46,800 | | | | | | 46,800 |
| | 41.00.00 | | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | 41.99.00 | ELECTRICAL EQUIPMENT, MISCELLANEOUS | | | | | | | | | |
| | | | DIESEL POWERED 250KW GENERATOR | POWER SUPPLY FOR WATER TREATMENT EQUIPMENT | 100.00 DAY | 10,400 | - | | | 83.40 /MH | | 10,400 |
| | | | MISC ELECTRICAL EQUIPMENT AND LABOR | ALLOWANCE | 1.00 EA | | - | 20,800 | 180 | 100.00 /MH | 18,000 | 38,800 |
| | | | ELECTRICAL EQUIPMENT, MISCELLANEOUS | | | 10,400 | | 20,800 | 180 | | 18,000 | 49,200 |
| | | | ELECTRICAL EQUIPMENT | | | 10,400 | | 20,800 | 180 | | 18,000 | 49,200 |
| | 71.00.00 | | PROJECT INDIRECT | | | | | | | | | |
| | | 71.27.00 | FREIGHT | | | | | | | | | |
| | | | FREIGHT FOR WATER TREATMENT EQUIPMENT | NOT INCLUDED IN VENDORS COST | 1.00 LS | 3,120 | - | | | /MH | | 3,120 |
| | | | FREIGHT | | | 3,120 | | | | | | 3,120 |
| | | 71.99.00 | PROJECT INDIRECT, USER DEFINED | | | | | | | | | |
| | | | MONTHLY OPERATION & MAINTENANCE COST FOR WATER TREATMENT SYSTEM | CHEMICALS, CONSUMABLE, POWER, DISSPOSAL, SPARE PARTS | 9.00 MO | 262,080 | - | | | /MH | | 262,080 |
| | | | PROJECT INDIRECT, USER DEFINED | | | 262,080 | | | | | | 262,080 |
| | | | PROJECT INDIRECT | | | 265,200 | | | | | | 265,200 |
| | | | **DWTR ASH POND DEWATERING** | | | **2,527,600** | | **111,872** | **1,570** | | **132,205** | **2,771,677** |
| **HSS1** | | | **UNIT 1** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - UNIT 1 BOILER BUILDING, 90'X100' | | 667.00 CY | - | - | 0 | 480 | 93.44 /MH | 44,818 | 44,818 |
| | | | CONCRETE FOUNDATION - UNIT 1 SERVICE BAY, 90'X20' | | 133.00 CY | - | - | 0 | 96 | 93.44 /MH | 8,937 | 8,937 |
| | | | CONCRETE FOUNDATION - UNIT 1 TURBINE BUILDING, 90'X45' | | 300.00 CY | - | - | 0 | 216 | 93.44 /MH | 20,158 | 20,158 |
| | | | CONCRETE FOUNDATION - UNIT 1 TURBINE PEDESTAL | | 298.00 CY | - | - | 0 | 456 | 93.44 /MH | 42,603 | 42,603 |
| | | | CONCRETE FOUNDATION - UNIT 1 FAN FOUNDATIONS | | 75.00 CY | - | - | | 72 | 93.44 /MH | 6,701 | 6,701 |
| | | | CONCRETE - U1 CIRC WATER SYSTEM PIPING & TUNNELS | ALLOWANCE | 1.00 LS | - | - | | 226 | 124.87 /MH | 28,221 | 28,221 |
| | | | CONCRETE | | | | | | 1,545 | | 151,437 | 151,437 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 1 BOILER BUILDING | | 513.00 TN | - | - | | 443 | 115.91 /MH | 51,349 | 51,349 |
| | | | STRUCTURAL STEEL - UNIT 1 SERVICE BAY | | 36.00 TN | - | - | | 31 | 115.91 /MH | 3,603 | 3,603 |
| | | | STRUCTURAL STEEL - UNIT 1 TURBINE BUILDING | | 122.00 TN | - | - | | 105 | 115.91 /MH | 12,212 | 12,212 |
| | | | STEEL | | | | | | 579 | | 67,164 | 67,164 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - UNIT 1 BOILER BUILDING ROOF | | 9,000.00 SF | - | - | 0 | 115 | 101.39 /MH | 11,635 | 11,635 |
| | | | ARCHITECTURAL - UNIT 1 SERVICE BAY ROOF | | 1,800.00 SF | - | - | | 23 | 101.39 /MH | 2,327 | 2,327 |

Estimate No..: 32707I
Project No.: 10572-097
Estimate Date: 9/30/2016
Prep/Rev/App: RCK, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - UNIT 1 TURBINE BUILDING ROOF | | 2,925.00 SF | - | - | | 37 | 101.39 /MH | 3,781 | 3,781 |
| | | | ARCHITECTURAL - UNIT 1 BOILER BUILDING SIDING | MASONRY | 21,200.00 SF | - | - | | 198 | 85.54 /MH | 16,956 | 16,956 |
| | | | ARCHITECTURAL - UNIT 1 SERVICE BAY SIDING | MASONRY | 4,440.00 SF | - | - | | 42 | 85.54 /MH | 3,551 | 3,551 |
| | | | ARCHITECTURAL - UNIT 1 TURBINE BUILDING SIDING | MASONRY | 4,860.00 SF | - | - | | 45 | 85.54 /MH | 3,887 | 3,887 |
| | | | ARCHITECTURAL | | | | | | 460 | | 42,136 | 42,136 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 1 BOILER AND APPURTENANCES | INCLUDES PA, ID & FD FANS | 981.00 TN | - | - | 0 | 1,689 | 88.50 /MH | 149,428 | 149,428 |
| | | | MECHANICAL EQUIPMENT - UNIT 1 AIR HEATER | | 298.00 TN | - | - | 0 | 513 | 99.95 /MH | 51,265 | 51,265 |
| | | | MECHANICAL EQUIPMENT - UNIT 1 FUEL OIL EQUIPMENT | | 107.00 TN | - | - | 0 | 184 | 99.95 /MH | 18,407 | 18,407 |
| | | | MECHANICAL EQUIPMENT - UNIT 1 CONDENSERS | | 42.00 TN | - | - | 0 | 86 | 99.95 /MH | 8,563 | 8,563 |
| | | | MECHANICAL EQUIPMENT - UNIT 1 WATER TREATMENT EQUIPMENT | | 43.00 TN | - | - | 0 | 99 | 99.95 /MH | 9,863 | 9,863 |
| | | | MECHANICAL EQUIPMENT - U1 HEAT EXCHANGERS | | 81.00 TN | - | - | 0 | 186 | 99.95 /MH | 18,579 | 18,579 |
| | | | MECHANICAL EQUIPMENT - UNIT 1 MISC. POWER PLANT EQUIPMENT | | 98.00 TN | - | - | 0 | 169 | 99.95 /MH | 16,859 | 16,859 |
| | | | MECHANICAL EQUIPMENT - UNIT 1 MISC. SMALL TANKS | | 31.00 TN | - | - | 0 | 53 | 99.95 /MH | 5,333 | 5,333 |
| | | | MECHANICAL EQUIPMENT - UNIT 1 TURBINE GENERATOR | | 373.00 TN | - | - | 0 | 856 | 99.95 /MH | 85,556 | 85,556 |
| | | | MECHANICAL EQUIPMENT - UNIT 1 DUCTWORK | | 291.00 TN | - | - | 0 | 661 | 99.95 /MH | 66,056 | 66,056 |
| | | | MECHANICAL EQUIPMENT - CIRC WATER SYSTEM EQUIPMENT (PUMPS, MOTORS & SWGR) | | 82.00 TN | - | - | | 188 | 99.95 /MH | 18,809 | 18,809 |
| | | | MECHANICAL EQUIPMENT | | | | | | 4,683 | | 448,718 | 448,718 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - UNIT 1 BOILER PIPING & SUPPORTS | | 205.00 TN | - | - | 0 | 470 | 99.95 /MH | 47,022 | 47,022 |
| | | | PIPING | | | | | | 470 | | 47,022 | 47,022 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - UNIT 1 SWITCHGEAR | | 37.00 TN | - | - | 0 | 84 | 99.95 /MH | 8,399 | 8,399 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 84 | | 8,399 | 8,399 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - UNIT 1 MISC. | | 3.00 TN | - | - | 0 | 30 | 124.87 /MH | 3,746 | 3,746 |
| | | | CABLE | | | | | | 30 | | 3,746 | 3,746 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | WASTE | BUILDING WASTE | 433.00 CY | - | - | 0 | 152 | 116.90 /MH | 17,716 | 17,716 |
| | | | WASTE | | | | | | 152 | | 17,716 | 17,716 |
| | | | DEMOLITION | | | | | | 8,003 | | 786,339 | 786,339 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 1 BOILER AND APPURTENANCES | STEEL SALVAGE | -981.00 TN | - | (106,929) | - | | 115.91 /MH | | (106,929) |
| | | | MECHANICAL EQUIPMENT - UNIT 1 AIR HEATER | STEEL SALVAGE | -298.00 TN | - | (32,482) | - | | 115.91 /MH | | (32,482) |
| | | | MECHANICAL EQUIPMENT - UNIT 1 FUEL OIL EQUIPMENT | STEEL SALVAGE | -107.00 TN | - | (11,663) | - | | 115.91 /MH | | (11,663) |
| | | | MECHANICAL EQUIPMENT - UNIT 1 CONDENSER | STEEL SALVAGE | -14.20 TN | - | (1,548) | - | | 115.91 /MH | | (1,548) |
| | | | MECHANICAL EQUIPMENT - UNIT 1 WATER TREATMENT EQUIPMENT | STEEL SALVAGE | -43.00 TN | - | (4,687) | - | | 115.91 /MH | | (4,687) |
| | | | MECHANICAL EQUIPMENT - UNIT 1 HEAT EXCHANGERS | STEEL SALVAGE | -81.00 TN | - | (8,829) | - | | 115.91 /MH | | (8,829) |
| | | | MECHANICAL EQUIPMENT - UNIT 1 TURBINE GENERATOR | STEEL SALVAGE | -365.50 TN | - | (39,840) | - | | 115.91 /MH | | (39,840) |
| | | | MECHANICAL EQUIPMENT - UNIT 1 DUCTWORK | STEEL SALVAGE | -291.00 TN | - | (31,719) | - | | 115.91 /MH | | (31,719) |
| | | | ELECTRICAL EQUIPMENT - UNIT 1 SWITCHGEAR | STEEL SALVAGE | -37.00 TN | - | (4,033) | - | | 115.91 /MH | | (4,033) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 1 BOILER BUILDING | STEEL SALVAGE | -513.00 TN | - | (55,917) | - | | 115.91 /MH | | (55,917) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 1 SERVICE BAY | STEEL SALVAGE | -36.00 TN | - | (3,924) | - | | 115.91 /MH | | (3,924) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 1 TURBINE BUILDING | STEEL SALVAGE | -122.00 TN | - | (13,298) | - | | 115.91 /MH | | (13,298) |
| | | | MECHANICAL EQUIPMENT - UNIT 1 MISC POWER PLANT EQUIP | STEEL SALVAGE | -98.00 TN | - | (10,682) | - | | 115.91 /MH | | (10,682) |
| | | | MIXED STEEL - UNIT 1 BOILER PIPING AND SUPPORTS | STEEL SALVAGE | -205.00 TN | - | (22,345) | - | | 115.91 /MH | | (22,345) |
| | | | MIXED STEEL - UNIT 1 CIRC WATER SYSTEM | STEEL SALVAGE | -82.00 TN | - | (8,938) | - | | 115.91 /MH | | (8,938) |
| | | | MECHANICAL EQUIPMENT - UNIT 1 MISC. SMALL TANKS | STEEL SALVAGE | -31.00 TN | - | (3,379) | - | | 115.91 /MH | | (3,379) |
| | | | MIXED STEEL | | | | (360,212) | | | | | (360,212) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | UNIT 1 CABLE - MISC. | CU SALVAGE | -3.00 TN | - | (10,401) | - | | 115.91 /MH | | (10,401) |
| | | | MECHANICAL EQUIPMENT - UNIT 1 TURBINE GENERATOR | CU SALVAGE | -7.50 TN | - | (26,003) | - | | 115.91 /MH | | (26,003) |

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**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 1 CONDENSER ADMIRALTY BRASS TUBES | CU SALVAGE | -27.80 TN | - | (96,383) | - | | 115.91 /MH | | (96,383) |
| | | | COPPER | | | | (132,786) | | | | | (132,786) |
| | | | SCRAP VALUE | | | | (492,998) | | | | | (492,998) |
| | | | **HSS1 UNIT 1** | | | | **(492,998)** | | **8,003** | | **786,339** | **293,340** |
| **HSS2** | | | **UNIT 2** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - UNIT 2 BOILER BUILDING, 90'X100' | | 667.00 CY | - | - | | 480 | 93.44 /MH | 44,818 | 44,818 |
| | | | CONCRETE FOUNDATION - UNIT 2 SERVICE BAY, 90'X20' | | 133.00 CY | - | - | | 96 | 93.44 /MH | 8,937 | 8,937 |
| | | | CONCRETE FOUNDATION - UNIT 2 TURBINE BUILDING, 90'X45' | | 300.00 CY | - | - | | 216 | 93.44 /MH | 20,158 | 20,158 |
| | | | CONCRETE FOUNDATION - UNIT 2 TURBINE PEDESTAL | | 298.00 CY | - | - | | 456 | 93.44 /MH | 42,603 | 42,603 |
| | | | CONCRETE FOUNDATION - UNIT 2 FAN FOUNDATIONS | | 75.00 CY | - | - | | 72 | 93.44 /MH | 6,701 | 6,701 |
| | | | CONCRETE - U2 CIRC WATER SYSTEM PIPING & TUNNELS | ALLOWANCE | 1.00 LS | - | - | | 226 | 124.87 /MH | 28,221 | 28,221 |
| | | | CONCRETE | | | | | | 1,545 | | 151,437 | 151,437 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 2 BOILER BUILDING | | 513.00 TN | - | - | | 443 | 115.91 /MH | 51,349 | 51,349 |
| | | | STRUCTURAL STEEL - UNIT 2 SERVICE BAY | | 36.00 TN | - | - | | 31 | 115.91 /MH | 3,603 | 3,603 |
| | | | STRUCTURAL STEEL - UNIT 2 TURBINE BUILDING | | 122.00 TN | - | - | | 105 | 115.91 /MH | 12,212 | 12,212 |
| | | | STEEL | | | | | | 579 | | 67,164 | 67,164 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - UNIT 2 BOILER BUILDING ROOF | | 9,000.00 SF | - | - | | 115 | 101.39 /MH | 11,635 | 11,635 |
| | | | ARCHITECTURAL - UNIT 2 SERVICE BAY ROOF | | 1,800.00 SF | - | - | | 23 | 101.39 /MH | 2,327 | 2,327 |
| | | | ARCHITECTURAL - UNIT 2 TURBINE BUILDING ROOF | | 2,925.00 SF | - | - | | 37 | 101.39 /MH | 3,781 | 3,781 |
| | | | ARCHITECTURAL - UNIT 2 BOILER BUILDING SIDING | MASONRY | 11,700.00 SF | - | - | | 109 | 85.54 /MH | 9,358 | 9,358 |
| | | | ARCHITECTURAL - UNIT 2 SERVICE BAY SIDING | MASONRY | 3,600.00 SF | - | - | | 34 | 85.54 /MH | 2,879 | 2,879 |
| | | | ARCHITECTURAL - UNIT 2 TURBINE BUILDING SIDING | MASONRY | 2,160.00 SF | - | - | | 20 | 85.54 /MH | 1,728 | 1,728 |
| | | | ARCHITECTURAL | | | | | | 338 | | 31,707 | 31,707 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 2 BOILER AND APPURTENANCES | INCLUDES PA, ID & FD FANS | 981.00 TN | - | - | 0 | 1,689 | 88.50 /MH | 149,428 | 149,428 |
| | | | MECHANICAL EQUIPMENT - UNIT 2 AIR HEATER | | 298.00 TN | - | - | 0 | 513 | 99.95 /MH | 51,265 | 51,265 |
| | | | MECHANICAL EQUIPMENT - UNIT 2 FUEL OIL EQUIPMENT | | 107.00 TN | - | - | 0 | 184 | 99.95 /MH | 18,407 | 18,407 |
| | | | MECHANICAL EQUIPMENT - UNIT 2 CONDENSERS | | 42.00 TN | - | - | 0 | 86 | 99.95 /MH | 8,563 | 8,563 |
| | | | MECHANICAL EQUIPMENT - UNIT 2 WATER TREATMENT EQUIPMENT | | 43.00 TN | - | - | 0 | 99 | 99.95 /MH | 9,863 | 9,863 |
| | | | MECHANICAL EQUIPMENT - UNIT 2 HEAT EXCHANGERS | | 81.00 TN | - | - | 0 | 186 | 99.95 /MH | 18,579 | 18,579 |
| | | | MECHANICAL EQUIPMENT - UNIT 2 MISC. POWER PLANT EQUIPMENT | | 98.00 TN | - | - | 0 | 169 | 99.95 /MH | 16,859 | 16,859 |
| | | | MECHANICAL EQUIPMENT - UNIT 2 MISC. SMALL TANKS | | 31.00 TN | - | - | 0 | 53 | 99.95 /MH | 5,333 | 5,333 |
| | | | MECHANICAL EQUIPMENT - UNIT 2 TURBINE GENERATOR | | 373.00 TN | - | - | 0 | 856 | 99.95 /MH | 85,556 | 85,556 |
| | | | MECHANICAL EQUIPMENT - UNIT 2 DUCTWORK | | 291.00 TN | - | - | 0 | 661 | 99.95 /MH | 66,056 | 66,056 |
| | | | MECHANICAL EQUIPMENT - CIRC WATER SYSTEM EQUIPMENT (PUMPS, MOTORS & SWGR) | | 82.00 TN | - | - | | 188 | 99.95 /MH | 18,809 | 18,809 |
| | | | MECHANICAL EQUIPMENT | | | | | | 4,683 | | 448,718 | 448,718 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - UNIT 2 BOILER PIPING & SUPPORTS | | 205.00 TN | - | - | 0 | 470 | 99.95 /MH | 47,022 | 47,022 |
| | | | PIPING | | | | | | 470 | | 47,022 | 47,022 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - UNIT 2 SWITCHGEAR | | 37.00 TN | - | - | 0 | 84 | 99.95 /MH | 8,399 | 8,399 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 84 | | 8,399 | 8,399 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - UNIT 2 MISC. | | 3.00 TN | - | - | | 30 | 124.87 /MH | 3,746 | 3,746 |
| | | | CABLE | | | | | | 30 | | 3,746 | 3,746 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | WASTE | BUILDING WASTE | 433.00 CY | - | - | 0 | 152 | 116.90 /MH | 17,716 | 17,716 |
| | | | WASTE | | | | | | 152 | | 17,716 | 17,716 |

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**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEMOLITION | | | | | | 7,882 | | 775,909 | 775,909 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 2 BOILER AND APPURTENANCES | STEEL SALVAGE | -981.00 TN | - | (106,929) | - | | 115.91 /MH | | (106,929) |
| | | | MECHANICAL EQUIPMENT - UNIT 2 AIR HEATER | STEEL SALVAGE | -298.00 TN | - | (32,482) | - | | 115.91 /MH | | (32,482) |
| | | | MECHANICAL EQUIPMENT - UNIT 2 FUEL OIL EQUIPMENT | STEEL SALVAGE | -107.00 TN | - | (11,663) | - | | 115.91 /MH | | (11,663) |
| | | | MECHANICAL EQUIPMENT - UNIT 2 CONDENSER | STEEL SALVAGE | -14.20 TN | - | (1,548) | - | | 115.91 /MH | | (1,548) |
| | | | MECHANICAL EQUIPMENT - UNIT 2 WATER TREATMENT EQUIPMENT | STEEL SALVAGE | -43.00 TN | - | (4,687) | - | | 115.91 /MH | | (4,687) |
| | | | MECHANICAL EQUIPMENT - UNIT 2 HEAT EXCHANGERS | STEEL SALVAGE | -81.00 TN | - | (8,829) | - | | 115.91 /MH | | (8,829) |
| | | | MECHANICAL EQUIPMENT - UNIT 2 TURBINE GENERATOR | STEEL SALVAGE | -365.50 TN | - | (39,840) | - | | 115.91 /MH | | (39,840) |
| | | | MECHANICAL EQUIPMENT - UNIT 2 DUCTWORK | STEEL SALVAGE | -291.00 TN | - | (31,719) | - | | 115.91 /MH | | (31,719) |
| | | | ELECTRICAL EQUIPMENT - UNIT 2 SWITCHGEAR | STEEL SALVAGE | -37.00 TN | - | (4,033) | - | | 115.91 /MH | | (4,033) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 2 BOILER BUILDING | STEEL SALVAGE | -513.00 TN | - | (55,917) | - | | 115.91 /MH | | (55,917) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 2 SERVICE BAY | STEEL SALVAGE | -36.00 TN | - | (3,924) | - | | 115.91 /MH | | (3,924) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 2 TURBINE BUILDING | STEEL SALVAGE | -122.00 TN | - | (13,298) | - | | 115.91 /MH | | (13,298) |
| | | | MECHANICAL EQUIPMENT - UNIT 2 MISC POWER PLANT EQUIP | STEEL SALVAGE | -98.00 TN | - | (10,682) | - | | 115.91 /MH | | (10,682) |
| | | | MIXED STEEL - UNIT 2 BOILER PIPING AND SUPPORTS | STEEL SALVAGE | -205.00 TN | - | (22,345) | - | | 115.91 /MH | | (22,345) |
| | | | MIXED STEEL - UNIT 2 CIRC WATER SYSTEM | STEEL SALVAGE | -82.00 TN | - | (8,938) | - | | 115.91 /MH | | (8,938) |
| | | | MECHANICAL EQUIPMENT - UNIT 2 MISC. SMALL TANKS | STEEL SALVAGE | -31.00 TN | - | (3,379) | - | | 115.91 /MH | | (3,379) |
| | | | MIXED STEEL | | | | (360,212) | | | | | (360,212) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | UNIT 2 CABLE - MISC. | CU SALVAGE | -3.00 TN | - | (10,401) | - | | 115.91 /MH | | (10,401) |
| | | | MECHANICAL EQUIPMENT - UNIT 2 TURBINE GENERATOR | CU SALVAGE | -7.50 TN | - | (26,003) | - | | 115.91 /MH | | (26,003) |
| | | | MECHANICAL EQUIPMENT - UNIT 2 CONDENSER ADMIRALTY BRASS TUBES | CU SALVAGE | -27.80 TN | - | (96,383) | - | | 115.91 /MH | | (96,383) |
| | | | COPPER | | | | (132,786) | | | | | (132,786) |
| | | | SCRAP VALUE | | | | (492,998) | | | | | (492,998) |
| | | | **HSS2 UNIT 2** | | | | **(492,998)** | | **7,882** | | **775,909** | **282,911** |
| **HSS3** | | | **UNIT 3** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - UNIT 3 BOILER BUILDING, 90'X100' | | 667.00 CY | - | - | | 480 | 93.44 /MH | 44,818 | 44,818 |
| | | | CONCRETE FOUNDATION - UNIT 3 SERVICE BAY, 90'X20' | | 133.00 CY | - | - | | 96 | 93.44 /MH | 8,937 | 8,937 |
| | | | CONCRETE FOUNDATION - UNIT 3 TURBINE BUILDING, 90'X45' | | 300.00 CY | - | - | | 216 | 93.44 /MH | 20,158 | 20,158 |
| | | | CONCRETE FOUNDATION - UNIT 3 TURBINE PEDESTAL | | 353.00 CY | - | - | | 540 | 93.44 /MH | 50,466 | 50,466 |
| | | | CONCRETE FOUNDATION - UNIT 3 FAN FOUNDATIONS | | 88.00 CY | - | - | | 84 | 93.44 /MH | 7,863 | 7,863 |
| | | | CONCRETE - U3 CIRC WATER SYSTEM PIPING & TUNNELS | ALLOWANCE | 1.00 LS | - | - | | 268 | 124.87 /MH | 33,465 | 33,465 |
| | | | CONCRETE | | | | | | 1,683 | | 165,706 | 165,706 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 3 BOILER BUILDING | | 513.00 TN | - | - | | 443 | 115.91 /MH | 51,349 | 51,349 |
| | | | STRUCTURAL STEEL - UNIT 3 SERVICE BAY | | 36.00 TN | - | - | | 31 | 115.91 /MH | 3,603 | 3,603 |
| | | | STRUCTURAL STEEL - UNIT 3 TURBINE BUILDING | | 122.00 TN | - | - | | 105 | 115.91 /MH | 12,212 | 12,212 |
| | | | STEEL | | | | | | 579 | | 67,164 | 67,164 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - UNIT 3 BOILER BUILDING ROOF | | 9,000.00 SF | - | - | | 115 | 101.39 /MH | 11,635 | 11,635 |
| | | | ARCHITECTURAL - UNIT 3 SERVICE BAY ROOF | | 1,800.00 SF | - | - | | 23 | 101.39 /MH | 2,327 | 2,327 |
| | | | ARCHITECTURAL - UNIT 3 TURBINE BUILDING ROOF | | 2,925.00 SF | - | - | | 37 | 101.39 /MH | 3,781 | 3,781 |
| | | | ARCHITECTURAL - UNIT 3 BOILER BUILDING SIDING | MASONRY | 11,700.00 SF | - | - | | 109 | 85.54 /MH | 9,358 | 9,358 |
| | | | ARCHITECTURAL - UNIT 3 SERVICE BAY SIDING | MASONRY | 3,600.00 SF | - | - | | 34 | 85.54 /MH | 2,879 | 2,879 |
| | | | ARCHITECTURAL - UNIT 3 TURBINE BUILDING SIDING | MASONRY | 2,160.00 SF | - | - | | 20 | 85.54 /MH | 1,728 | 1,728 |
| | | | ARCHITECTURAL | | | | | | 338 | | 31,707 | 31,707 |
| | | 11.25.00 | CONCRETE CHIMNEY & STACK | | | | | | | | | |
| | | | DEMOLITION, STEEL STACK 6' DIA X 209' HIGH | | 40.00 TN | - | - | | 92 | 99.95 /MH | 9,175 | 9,175 |
| | | | CONCRETE CHIMNEY & STACK | | | | | | 92 | | 9,175 | 9,175 |

Estimate No..: 32707I
Project No.: 10572-097
Estimate Date: 9/30/2016
Prep/Rev/App: RCK, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 3 BOILER AND APPURTENANCES | INCLUDES PA, ID & FD FANS | 1,162.00 TN | - | - | 0 | 2,000 | 88.50 /MH | 176,998 | 176,998 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 AIR HEATER | | 354.00 TN | - | - | 0 | 609 | 99.95 /MH | 60,899 | 60,899 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 FUEL OIL EQUIPMENT | | 126.00 TN | - | - | 0 | 217 | 99.95 /MH | 21,676 | 21,676 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 CONDENSERS | | 50.00 TN | - | - | 0 | 102 | 99.95 /MH | 10,194 | 10,194 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 WATER TREATMENT EQUIPMENT | | 51.00 TN | - | - | 0 | 117 | 99.95 /MH | 11,698 | 11,698 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 HEAT EXCHANGERS | | 96.00 TN | - | - | 0 | 220 | 99.95 /MH | 22,020 | 22,020 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 MISC. POWER PLANT EQUIPMENT | | 117.00 TN | - | - | 0 | 201 | 99.95 /MH | 20,128 | 20,128 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 MISC. SMALL TANKS | | 37.00 TN | - | - | 0 | 64 | 99.95 /MH | 6,365 | 6,365 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 TURBINE GENERATOR | | 442.00 TN | - | - | 0 | 1,014 | 99.95 /MH | 101,383 | 101,383 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 DUCTWORK | | 345.00 TN | - | - | 0 | 784 | 99.95 /MH | 78,313 | 78,313 |
| | | | MECHANICAL EQUIPMENT - CIRC WATER SYSTEM EQUIPMENT (PUMPS, MOTORS & SWGR) | | 97.00 TN | - | - | | 223 | 99.95 /MH | 22,249 | 22,249 |
| | | | MECHANICAL EQUIPMENT | | | | | | 5,551 | | 531,924 | 531,924 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - UNIT 3 BOILER PIPING & SUPPORTS | | 243.00 TN | - | - | 0 | 558 | 99.95 /MH | 55,738 | 55,738 |
| | | | PIPING | | | | | | 558 | | 55,738 | 55,738 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - UNIT 3 SWITCHGEAR | | 44.00 TN | - | - | 0 | 100 | 99.95 /MH | 9,988 | 9,988 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 100 | | 9,988 | 9,988 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - UNIT 3 MISC. | | 4.00 TN | - | - | | 40 | 124.87 /MH | 4,995 | 4,995 |
| | | | CABLE | | | | | | 40 | | 4,995 | 4,995 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | WASTE | BUILDING WASTE | 433.00 CY | - | - | 0 | 152 | 116.90 /MH | 17,716 | 17,716 |
| | | | WASTE | | | | | | 152 | | 17,716 | 17,716 |
| | | | DEMOLITION | | | | | | 9,093 | | 894,112 | 894,112 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 3 BOILER AND APPURTENANCES | STEEL SALVAGE | -1,162.00 TN | - | (126,658) | - | | 115.91 /MH | | (126,658) |
| | | | MECHANICAL EQUIPMENT - UNIT 3 AIR HEATER | STEEL SALVAGE | -354.00 TN | - | (38,586) | - | | 115.91 /MH | | (38,586) |
| | | | MECHANICAL EQUIPMENT - UNIT 3 FUEL OIL EQUIPMENT | STEEL SALVAGE | -126.00 TN | - | (13,734) | - | | 115.91 /MH | | (13,734) |
| | | | MECHANICAL EQUIPMENT - UNIT 3 CONDENSER | STEEL SALVAGE | -22.20 TN | - | (2,420) | - | | 115.91 /MH | | (2,420) |
| | | | MECHANICAL EQUIPMENT - UNIT 3 WATER TREATMENT EQUIPMENT | STEEL SALVAGE | -51.00 TN | - | (5,559) | - | | 115.91 /MH | | (5,559) |
| | | | MECHANICAL EQUIPMENT - UNIT 3 HEAT EXCHANGERS | STEEL SALVAGE | -96.00 TN | - | (10,464) | - | | 115.91 /MH | | (10,464) |
| | | | MECHANICAL EQUIPMENT - UNIT 3 TURBINE GENERATOR | STEEL SALVAGE | -433.20 TN | - | (47,219) | - | | 115.91 /MH | | (47,219) |
| | | | MECHANICAL EQUIPMENT - UNIT 3 DUCTWORK | STEEL SALVAGE | -345.00 TN | - | (37,605) | - | | 115.91 /MH | | (37,605) |
| | | | ELECTRICAL EQUIPMENT - UNIT 3 SWITCHGEAR | STEEL SALVAGE | -44.00 TN | - | (4,796) | - | | 115.91 /MH | | (4,796) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 3 BOILER BUILDING | STEEL SALVAGE | -513.00 TN | - | (55,917) | - | | 115.91 /MH | | (55,917) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 3 SERVICE BAY | STEEL SALVAGE | -36.00 TN | - | (3,924) | - | | 115.91 /MH | | (3,924) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 3 TURBINE BUILDING | STEEL SALVAGE | -122.00 TN | - | (13,298) | - | | 115.91 /MH | | (13,298) |
| | | | MECHANICAL EQUIPMENT - UNIT 3 MISC POWER PLANT EQUIP | STEEL SALVAGE | -117.00 TN | - | (12,753) | - | | 115.91 /MH | | (12,753) |
| | | | MIXED STEEL - UNIT 3 BOILER PIPING AND SUPPORTS | STEEL SALVAGE | -243.00 TN | - | (26,487) | - | | 115.91 /MH | | (26,487) |
| | | | MIXED STEEL - UNIT 3 CIRC WATER SYSTEM | STEEL SALVAGE | -97.00 TN | - | (10,573) | - | | 115.91 /MH | | (10,573) |
| | | | MECHANICAL EQUIPMENT - UNIT 3 MISC. SMALL TANKS | STEEL SALVAGE | -37.00 TN | - | (4,033) | - | | 115.91 /MH | | (4,033) |
| | | | MIXED STEEL | | | | (414,026) | | | | | (414,026) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | UNIT 3 CABLE - MISC. | CU SALVAGE | -4.00 TN | - | (13,868) | - | | 115.91 /MH | | (13,868) |
| | | | MECHANICAL EQUIPMENT - UNIT 3 TURBINE GENERATOR | CU SALVAGE | -8.80 TN | - | (30,510) | - | | 115.91 /MH | | (30,510) |
| | | | MECHANICAL EQUIPMENT - UNIT 3 CONDENSER ADMIRALTY BRASS TUBES | CU SALVAGE | -27.80 TN | - | (96,383) | - | | 115.91 /MH | | (96,383) |
| | | | COPPER | | | | (140,760) | | | | | (140,760) |
| | | | SCRAP VALUE | | | | (554,786) | | | | | (554,786) |

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**INDIANAPOLIS POWER & LIGHT**
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**CONCEPTUAL ESTIMATE**

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **HSS3 UNIT 3** | | | | **(554,786)** | | **9,093** | | **894,112** | **339,327** |
| **HSS4** | | | **UNIT 4** | | | | | | | | | |
| | **11.00.00** | | **DEMOLITION** | | | | | | | | | |
| | | **11.22.00** | **CONCRETE** | | | | | | | | | |
| | | | CONCRETE FOUNDATION - UNIT 4 BOILER BUILDING, 90'X100' | | 667.00 CY | - | - | | 480 | 93.44 /MH | 44,818 | 44,818 |
| | | | CONCRETE FOUNDATION - UNIT 4 SERVICE BAY, 90'X20' | | 133.00 CY | - | - | | 96 | 93.44 /MH | 8,937 | 8,937 |
| | | | CONCRETE FOUNDATION - UNIT 4 TURBINE BUILDING, 90'X45' | | 300.00 CY | - | - | | 216 | 93.44 /MH | 20,158 | 20,158 |
| | | | CONCRETE FOUNDATION - UNIT 4 TURBINE PEDESTAL | | 353.00 CY | - | - | | 540 | 93.44 /MH | 50,466 | 50,466 |
| | | | CONCRETE FOUNDATION - UNIT 4 FAN FOUNDATIONS | | 88.00 CY | - | - | | 84 | 93.44 /MH | 7,863 | 7,863 |
| | | | CONCRETE - U4 CIRC WATER SYSTEM PIPING & TUNNELS | ALLOWANCE | 1.00 LS | - | - | | 268 | 124.87 /MH | 33,465 | 33,465 |
| | | | **CONCRETE** | | | | | | **1,683** | | **165,706** | **165,706** |
| | | **11.23.00** | **STEEL** | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 4 BOILER BUILDING | | 513.00 TN | - | - | | 443 | 115.91 /MH | 51,349 | 51,349 |
| | | | STRUCTURAL STEEL - UNIT 4 SERVICE BAY | | 36.00 TN | - | - | | 31 | 115.91 /MH | 3,603 | 3,603 |
| | | | STRUCTURAL STEEL - UNIT 4 TURBINE BUILDING | | 122.00 TN | - | - | | 105 | 115.91 /MH | 12,212 | 12,212 |
| | | | **STEEL** | | | | | | **579** | | **67,164** | **67,164** |
| | | **11.24.00** | **ARCHITECTURAL** | | | | | | | | | |
| | | | ARCHITECTURAL - UNIT 4 BOILER BUILDING ROOF | | 9,000.00 SF | - | - | | 115 | 101.39 /MH | 11,635 | 11,635 |
| | | | ARCHITECTURAL - UNIT 4 SERVICE BAY ROOF | | 1,800.00 SF | - | - | | 23 | 101.39 /MH | 2,327 | 2,327 |
| | | | ARCHITECTURAL - UNIT 4 TURBINE BUILDING ROOF | | 2,925.00 SF | - | - | | 37 | 101.39 /MH | 3,781 | 3,781 |
| | | | ARCHITECTURAL - UNIT 4 BOILER BUILDING SIDING | MASONRY | 21,200.00 SF | - | - | | 198 | 85.54 /MH | 16,956 | 16,956 |
| | | | ARCHITECTURAL - UNIT 4 SERVICE BAY SIDING | MASONRY | 4,440.00 SF | - | - | | 42 | 85.54 /MH | 3,551 | 3,551 |
| | | | ARCHITECTURAL - UNIT 4 TURBINE BUILDING SIDING | MASONRY | 4,860.00 SF | - | - | | 45 | 85.54 /MH | 3,887 | 3,887 |
| | | | **ARCHITECTURAL** | | | | | | **460** | | **42,136** | **42,136** |
| | | **11.25.00** | **CONCRETE CHIMNEY & STACK** | | | | | | | | | |
| | | | DEMOLITION, STEEL STACK 6' DIA X 209' HIGH | | 40.00 TN | - | - | | 92 | 99.95 /MH | 9,175 | 9,175 |
| | | | **CONCRETE CHIMNEY & STACK** | | | | | | **92** | | **9,175** | **9,175** |
| | | **11.31.00** | **MECHANICAL EQUIPMENT** | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 4 BOILER AND APPURTENANCES | INCLUDES PA, ID & FD FANS | 1,162.00 TN | - | - | 0 | 2,000 | 88.50 /MH | 176,998 | 176,998 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 AIR HEATER | | 354.00 TN | - | - | 0 | 609 | 99.95 /MH | 60,899 | 60,899 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 FUEL OIL EQUIPMENT | | 126.00 TN | - | - | 0 | 217 | 99.95 /MH | 21,676 | 21,676 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 CONDENSERS | | 50.00 TN | - | - | 0 | 102 | 99.95 /MH | 10,194 | 10,194 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 WATER TREATMENT EQUIPMENT | | 51.00 TN | - | - | 0 | 117 | 99.95 /MH | 11,698 | 11,698 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 HEAT EXCHANGERS | | 96.00 TN | - | - | 0 | 220 | 99.95 /MH | 22,020 | 22,020 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 MISC. POWER PLANT EQUIPMENT | | 117.00 TN | - | - | 0 | 201 | 99.95 /MH | 20,128 | 20,128 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 MISC. SMALL TANKS | | 37.00 TN | - | - | 0 | 64 | 99.95 /MH | 6,365 | 6,365 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 TURBINE GENERATOR | | 442.00 TN | - | - | 0 | 1,014 | 99.95 /MH | 101,383 | 101,383 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 DUCTWORK | | 345.00 TN | - | - | 0 | 784 | 99.95 /MH | 78,313 | 78,313 |
| | | | MECHANICAL EQUIPMENT - CIRC WATER SYSTEM EQUIPMENT (PUMPS, MOTORS & SWGR) | | 97.00 TN | - | - | | 223 | 99.95 /MH | 22,249 | 22,249 |
| | | | **MECHANICAL EQUIPMENT** | | | | | | **5,551** | | **531,924** | **531,924** |
| | | **11.35.00** | **PIPING** | | | | | | | | | |
| | | | PIPING - UNIT 4 BOILER PIPING & SUPPORTS | | 243.00 TN | - | - | 0 | 558 | 99.95 /MH | 55,738 | 55,738 |
| | | | **PIPING** | | | | | | **558** | | **55,738** | **55,738** |
| | | **11.41.00** | **ELECTRICAL EQUIPMENT** | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - UNIT 4 SWITCHGEAR | | 44.00 TN | - | - | 0 | 100 | 99.95 /MH | 9,988 | 9,988 |
| | | | **ELECTRICAL EQUIPMENT** | | | | | | **100** | | **9,988** | **9,988** |
| | | **11.43.00** | **CABLE** | | | | | | | | | |
| | | | CABLE - UNIT 4 MISC. | | 4.00 TN | - | - | | 40 | 124.87 /MH | 4,995 | 4,995 |
| | | | **CABLE** | | | | | | **40** | | **4,995** | **4,995** |
| | | **11.86.00** | **WASTE** | | | | | | | | | |
| | | | WASTE | BUILDING WASTE | 433.00 CY | - | - | 0 | 152 | 116.90 /MH | 17,716 | 17,716 |
| | | | **WASTE** | | | | | | **152** | | **17,716** | **17,716** |
| | | | **DEMOLITION** | | | | | | **9,215** | | **904,542** | **904,542** |
| | **18.00.00** | | **SCRAP VALUE** | | | | | | | | | |

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 4 BOILER AND APPURTENANCES | STEEL SALVAGE | -1,162.00 TN | - | (126,658) | - | | 115.91 /MH | | (126,658) |
| | | | MECHANICAL EQUIPMENT - UNIT 4 AIR HEATER | STEEL SALVAGE | -354.00 TN | - | (38,586) | - | | 115.91 /MH | | (38,586) |
| | | | MECHANICAL EQUIPMENT - UNIT 4 FUEL OIL EQUIPMENT | STEEL SALVAGE | -126.00 TN | - | (13,734) | - | | 115.91 /MH | | (13,734) |
| | | | MECHANICAL EQUIPMENT - UNIT 4 CONDENSER | STEEL SALVAGE | -22.20 TN | - | (2,420) | - | | 115.91 /MH | | (2,420) |
| | | | MECHANICAL EQUIPMENT - UNIT 4 WATER TREATMENT EQUIPMENT | STEEL SALVAGE | -51.00 TN | - | (5,559) | - | | 115.91 /MH | | (5,559) |
| | | | MECHANICAL EQUIPMENT - UNIT 4 HEAT EXCHANGERS | STEEL SALVAGE | -96.00 TN | - | (10,464) | - | | 115.91 /MH | | (10,464) |
| | | | MECHANICAL EQUIPMENT - UNIT 4 TURBINE GENERATOR | STEEL SALVAGE | -433.20 TN | - | (47,219) | - | | 115.91 /MH | | (47,219) |
| | | | MECHANICAL EQUIPMENT - UNIT 4 DUCTWORK | STEEL SALVAGE | -345.00 TN | - | (37,605) | - | | 115.91 /MH | | (37,605) |
| | | | ELECTRICAL EQUIPMENT - UNIT 4 SWITCHGEAR | STEEL SALVAGE | -44.00 TN | - | (4,796) | - | | 115.91 /MH | | (4,796) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 4 BOILER BUILDING | STEEL SALVAGE | -513.00 TN | - | (55,917) | - | | 115.91 /MH | | (55,917) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 4 SERVICE BAY | STEEL SALVAGE | -36.00 TN | - | (3,924) | - | | 115.91 /MH | | (3,924) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 4 TURBINE BUILDING | STEEL SALVAGE | -122.00 TN | - | (13,298) | - | | 115.91 /MH | | (13,298) |
| | | | MECHANICAL EQUIPMENT - UNIT 4 MISC POWER PLANT EQUIP | STEEL SALVAGE | -117.00 TN | - | (12,753) | - | | 115.91 /MH | | (12,753) |
| | | | MIXED STEEL - UNIT 4 BOILER PIPING AND SUPPORTS | STEEL SALVAGE | -243.00 TN | - | (26,487) | - | | 115.91 /MH | | (26,487) |
| | | | MIXED STEEL - UNIT 4 CIRC WATER SYSTEM | STEEL SALVAGE | -97.00 TN | - | (10,573) | - | | 115.91 /MH | | (10,573) |
| | | | MECHANICAL EQUIPMENT - UNIT 4 MISC. SMALL TANKS | STEEL SALVAGE | -37.00 TN | - | (4,033) | - | | 115.91 /MH | | (4,033) |
| | | | MIXED STEEL | | | | (414,026) | | | | | (414,026) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | UNIT 4 CABLE - MISC. | CU SALVAGE | -4.00 TN | - | (13,868) | - | | 115.91 /MH | | (13,868) |
| | | | MECHANICAL EQUIPMENT - UNIT 4 TURBINE GENERATOR | CU SALVAGE | -8.80 TN | - | (30,510) | - | | 115.91 /MH | | (30,510) |
| | | | MECHANICAL EQUIPMENT - UNIT 4 CONDENSER ADMIRALTY BRASS TUBES | CU SALVAGE | -27.80 TN | - | (96,383) | - | | 115.91 /MH | | (96,383) |
| | | | COPPER | | | | (140,760) | | | | | (140,760) |
| | | | SCRAP VALUE | | | | (554,786) | | | | | (554,786) |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | FLOWABLE FILL - 2000 PSI | 36" DIA BURIED CIRC WATER PIPE, UNIT 4 | 78.00 CY | - | - | 7,956 | 39 | 79.86 /MH | 3,115 | 11,071 |
| | | | CONCRETE | | | | | 7,956 | 39 | | 3,115 | 11,071 |
| | | | CONCRETE | | | | | 7,956 | 39 | | 3,115 | 11,071 |
| | | | **HSS4 UNIT 4** | | | | **(554,786)** | **7,956** | **9,254** | | **907,656** | **360,827** |
| **HSS5** | | | **UNIT 5** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - UNIT 5 BOILER BUILDING, 115'X84' | | 716.00 CY | - | - | | 515 | 93.44 /MH | 48,110 | 48,110 |
| | | | CONCRETE FOUNDATION - UNIT 5 COAL BAY, 115'X45' | | 383.00 CY | - | - | | 275 | 93.44 /MH | 25,735 | 25,735 |
| | | | CONCRETE FOUNDATION - UNIT 5 TURBINE BUILDING, 115'X58' | | 494.00 CY | - | - | | 355 | 93.44 /MH | 33,193 | 33,193 |
| | | | CONCRETE FOUNDATION - UNIT 5 TURBINE PEDESTAL | | 606.00 CY | - | - | | 927 | 93.44 /MH | 86,636 | 86,636 |
| | | | CONCRETE FOUNDATION - UNIT 5 FAN FOUNDATIONS | | 152.00 CY | - | - | | 145 | 93.44 /MH | 13,582 | 13,582 |
| | | | CONCRETE - U5 CIRC WATER SYSTEM PIPING & TUNNELS | ALLOWANCE | 1.00 LS | - | - | | 460 | 124.87 /MH | 57,440 | 57,440 |
| | | | CONCRETE FOUNDATION - UNIT 5 FGR FAN FOUNDATIONS | | 30.00 CY | - | - | | 29 | 93.44 /MH | 2,681 | 2,681 |
| | | | CONCRETE | | | | | | 2,707 | | 267,376 | 267,376 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 5 BOILER BUILDING | | 696.00 TN | - | - | | 601 | 115.91 /MH | 69,667 | 69,667 |
| | | | STRUCTURAL STEEL - UNIT 5 COAL BAY | | 279.00 TN | - | - | | 241 | 115.91 /MH | 27,927 | 27,927 |
| | | | STRUCTURAL STEEL - UNIT 5 TURBINE BUILDING | | 170.00 TN | - | - | | 147 | 115.91 /MH | 17,016 | 17,016 |
| | | | STEEL | | | | | | 989 | | 114,609 | 114,609 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - UNIT 5 BOILER BUILDING ROOF | | 9,660.00 SF | - | - | | 123 | 101.39 /MH | 12,488 | 12,488 |
| | | | ARCHITECTURAL - UNIT 5 COAL BAY ROOF | | 5,175.00 SF | - | - | | 66 | 101.39 /MH | 6,690 | 6,690 |
| | | | ARCHITECTURAL - UNIT 5 TURBINE BUILDING ROOF | | 6,670.00 SF | - | - | | 85 | 101.39 /MH | 8,622 | 8,622 |
| | | | ARCHITECTURAL - UNIT 5 BOILER BUILDING SIDING | | 26,045.00 SF | - | - | | 133 | 85.54 /MH | 11,362 | 11,362 |
| | | | ARCHITECTURAL - UNIT 5 COAL BAY SIDING | | 6,620.00 SF | - | - | | 34 | 85.54 /MH | 2,888 | 2,888 |
| | | | ARCHITECTURAL - UNIT 5 TURBINE BUILDING SIDING | | 9,341.00 SF | - | - | | 48 | 85.54 /MH | 4,075 | 4,075 |
| | | | ARCHITECTURAL | | | | | | 488 | | 46,125 | 46,125 |

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**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.25.00 | CONCRETE CHIMNEY & STACK | | | | | | | | | |
| | | | DEMOLITION, CONCRETE CHIMNEY 7.4' DIA X 262' HIGH | TOP DOWN DEMOLITION | 573.00 CY | - | - | | 1,433 | 93.44 /MH | 133,853 | 133,853 |
| | | | CONCRETE CHIMNEY & STACK | | | | | | 1,433 | | 133,853 | 133,853 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 5 COAL BOILER AND APPURTENANCES | | 1,767.00 TN | - | - | 0 | 3,041 | 88.50 /MH | 269,153 | 269,153 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 PA, ID & FD FANS | | 231.00 TN | - | - | 0 | 398 | 99.95 /MH | 39,739 | 39,739 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 AIR HEATERS | | 608.00 TN | - | - | 0 | 1,047 | 99.95 /MH | 104,594 | 104,594 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 PULVERIZERS | | 347.00 TN | - | - | 0 | 597 | 99.95 /MH | 59,695 | 59,695 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 CONDENSERS | | 85.00 TN | - | - | 0 | 173 | 99.95 /MH | 17,330 | 17,330 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 WATER TREATMENT EQUIPMENT | | 88.00 TN | - | - | 0 | 202 | 99.95 /MH | 20,185 | 20,185 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 HEAT EXCHANGERS | | 164.00 TN | - | - | 0 | 282 | 99.95 /MH | 28,213 | 28,213 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 TURBINE GENERATOR | | 760.00 TN | - | - | 0 | 1,744 | 99.95 /MH | 174,324 | 174,324 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 DUCTWORK | | 592.00 TN | - | - | 0 | 1,345 | 99.95 /MH | 134,381 | 134,381 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 PRECIPITATOR | | 555.00 TN | - | - | 0 | 955 | 99.95 /MH | 95,477 | 95,477 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 ASH HANDLING EQUIPMENT | | 353.00 TN | - | - | 0 | 608 | 99.95 /MH | 60,727 | 60,727 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 MISC. POWER PLANT EQUIPMENT | | 200.00 TN | - | - | 0 | 459 | 99.95 /MH | 45,875 | 45,875 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 MISC. SMALL TANKS | | 63.00 TN | - | - | 0 | 108 | 99.95 /MH | 10,838 | 10,838 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 CONDENSATE TANK | | 7.80 TN | - | - | | 13 | 99.95 /MH | 1,342 | 1,342 |
| | | | MECHANICAL EQUIPMENT - CIRC WATER SYSTEM EQUIPMENT (PUMPS, MOTORS & SWGR) | | 167.00 TN | - | - | | 383 | 99.95 /MH | 38,305 | 38,305 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 FGR DUCTWORK | | 20.00 TN | - | - | | 45 | 99.95 /MH | 4,540 | 4,540 |
| | | | MECHANICAL EQUIPMENT - UNIT 5 FGR FAN | | 10.90 TN | - | - | | 19 | 99.95 /MH | 1,875 | 1,875 |
| | | | MECHANICAL EQUIPMENT | | | | | | 11,420 | | 1,106,593 | 1,106,593 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - UNIT 5 BOILER PIPING & SUPPORTS | | 417.00 TN | - | - | 0 | 957 | 99.95 /MH | 95,649 | 95,649 |
| | | | PIPING | | | | | | 957 | | 95,649 | 95,649 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - UNIT 5 SWITCHGEAR | | 76.00 TN | - | - | 0 | 173 | 99.95 /MH | 17,252 | 17,252 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 173 | | 17,252 | 17,252 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - UNIT 5 MISC. | | 6.00 TN | - | - | | 60 | 124.87 /MH | 7,492 | 7,492 |
| | | | CABLE | | | | | | 60 | | 7,492 | 7,492 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | WASTE | BUILDING WASTE | 727.00 CY | - | - | 0 | 254 | 116.90 /MH | 29,745 | 29,745 |
| | | | WASTE | | | | | | 254 | | 29,745 | 29,745 |
| | | | DEMOLITION | | | | | | 18,481 | | 1,818,694 | 1,818,694 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 5 COAL BOILER AND APPURTENANCES | STEEL SALVAGE | -1,767.00 TN | - | (192,603) | - | | 115.91 /MH | | (192,603) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 PA, ID & FD FANS | STEEL SALVAGE | -231.00 TN | - | (25,179) | - | | 115.91 /MH | | (25,179) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 AIR HEATERS | STEEL SALVAGE | -608.00 TN | - | (66,272) | - | | 115.91 /MH | | (66,272) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 PULVERIZERS | STEEL SALVAGE | -347.00 TN | - | (37,823) | - | | 115.91 /MH | | (37,823) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 CONDENSER | STEEL SALVAGE | -40.10 TN | - | (4,371) | - | | 115.91 /MH | | (4,371) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 WATER TREATMENT EQUIPMENT | STEEL SALVAGE | -88.00 TN | - | (9,592) | - | | 115.91 /MH | | (9,592) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 HEAT EXCHANGERS | STEEL SALVAGE | -164.00 TN | - | (17,876) | - | | 115.91 /MH | | (17,876) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 TURBINE GENERATOR | STEEL SALVAGE | -745.00 TN | - | (81,205) | - | | 115.91 /MH | | (81,205) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 DUCTWORK | STEEL SALVAGE | -592.00 TN | - | (64,528) | - | | 115.91 /MH | | (64,528) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 PRECIPITATOR | STEEL SALVAGE | -555.00 TN | - | (60,495) | - | | 115.91 /MH | | (60,495) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 ASH HANDLING EQUIPMENT | STEEL SALVAGE | -353.00 TN | - | (38,477) | - | | 115.91 /MH | | (38,477) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 MISC. POWER PLANT EQUIPMENT | STEEL SALVAGE | -200.00 TN | - | (21,800) | - | | 115.91 /MH | | (21,800) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 MISC. SMALL TANKS | STEEL SALVAGE | -63.00 TN | - | (6,867) | - | | 115.91 /MH | | (6,867) |
| | | | ELECTRICAL EQUIPMENT - UNIT 5 SWITCHGEAR | STEEL SALVAGE | -76.00 TN | - | (8,284) | - | | 115.91 /MH | | (8,284) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 5 BOILER BUILDING | STEEL SALVAGE | -696.00 TN | - | (75,864) | - | | 115.91 /MH | | (75,864) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 5 COAL BAY | STEEL SALVAGE | -279.00 TN | - | (30,411) | - | | 115.91 /MH | | (30,411) |

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Prep/Rev/App: RCK, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 5 TURBINE BUILDING | STEEL SALVAGE | -170.00 TN | - | (18,530) | - | | 115.91 /MH | | (18,530) |
| | | | MIXED STEEL - UNIT 5 BOILER AND TURBINE PIPING AND SUPPORTS | STEEL SALVAGE | -417.00 TN | - | (45,453) | - | | 115.91 /MH | | (45,453) |
| | | | MIXED STEEL - UNIT 5 CIRC WATER SYSTEM | STEEL SALVAGE | -167.00 TN | - | (18,203) | - | | 115.91 /MH | | (18,203) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 CONDENSER SS TUBES | STEEL SALVAGE | -2.16 TN | - | (235) | - | | 115.91 /MH | | (235) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 FGR DUCTWORK | STEEL SALVAGE | -20.00 TN | - | (2,180) | - | | 115.91 /MH | | (2,180) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 FGR FAN | STEEL SALVAGE | -10.90 TN | - | (1,188) | - | | 115.91 /MH | | (1,188) |
| | | | MIXED STEEL | | | | (827,436) | | | | | (827,436) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | UNIT 5 CABLE - MISC. | CU SALVAGE | -6.00 TN | - | (20,802) | - | | 115.91 /MH | | (20,802) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 TURBINE GENERATOR | CU SALVAGE | -15.00 TN | - | (52,005) | - | | 115.91 /MH | | (52,005) |
| | | | MECHANICAL EQUIPMENT - UNIT 5 CONDENSER ADMIRALTY BRASS TUBES | CU SALVAGE | -42.30 TN | - | (146,654) | - | | 115.91 /MH | | (146,654) |
| | | | COPPER | | | | (219,461) | | | | | (219,461) |
| | | | SCRAP VALUE | | | | (1,046,898) | | | | | (1,046,898) |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | FLOWABLE FILL - 2000 PSI | 36" DIA BURIED CIRC WATER PIPE, UNIT 5 | 78.00 CY | - | - | 7,956 | 39 | 79.86 /MH | 3,115 | 11,071 |
| | | | CONCRETE | | | | | 7,956 | 39 | | 3,115 | 11,071 |
| | | | CONCRETE | | | | | 7,956 | 39 | | 3,115 | 11,071 |
| | | | **HSS5 UNIT 5** | | | | **(1,046,898)** | **7,956** | **18,520** | | **1,821,809** | **782,867** |
| **HSS6** | | | **UNIT 6** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - UNIT 6 BOILER BUILDING, 115'X84' | | 716.00 CY | - | - | | 515 | 93.44 /MH | 48,110 | 48,110 |
| | | | CONCRETE FOUNDATION - UNIT 6 COAL BAY, 115'X45' | | 383.00 CY | - | - | | 275 | 93.44 /MH | 25,735 | 25,735 |
| | | | CONCRETE FOUNDATION - UNIT 6 TURBINE BUILDING, 115'X58' | | 494.00 CY | - | - | | 355 | 93.44 /MH | 33,193 | 33,193 |
| | | | CONCRETE FOUNDATION - UNIT 6 TURBINE PEDESTAL | | 599.00 CY | - | - | | 916 | 93.44 /MH | 85,635 | 85,635 |
| | | | CONCRETE FOUNDATION - UNIT 6 FANFOUNDATIONS | | 151.00 CY | - | - | | 144 | 93.44 /MH | 13,492 | 13,492 |
| | | | CONCRETE - U6 CIRC WATER SYSTEM PIPING & TUNNELS | ALLOWANCE | 1.00 LS | - | - | | 455 | 124.87 /MH | 56,816 | 56,816 |
| | | | CONCRETE FOUNDATION - UNIT 6 FGR FANFOUNDATIONS | | 30.00 CY | - | - | | 29 | 93.44 /MH | 2,681 | 2,681 |
| | | | CONCRETE | | | | | | 2,690 | | 265,662 | 265,662 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 6 BOILER BUILDING | | 696.00 TN | - | - | | 601 | 115.91 /MH | 69,667 | 69,667 |
| | | | STRUCTURAL STEEL - UNIT 6 COAL BAY | | 279.00 TN | - | - | | 241 | 115.91 /MH | 27,927 | 27,927 |
| | | | STRUCTURAL STEEL - UNIT 6 TURBINE BUILDING | | 170.00 TN | - | - | | 147 | 115.91 /MH | 17,016 | 17,016 |
| | | | STEEL | | | | | | 989 | | 114,609 | 114,609 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - UNIT 6 BOILER BUILDING ROOF | | 9,660.00 SF | - | - | | 123 | 101.39 /MH | 12,488 | 12,488 |
| | | | ARCHITECTURAL - UNIT 6 COAL BAY ROOF | | 5,175.00 SF | - | - | | 66 | 101.39 /MH | 6,690 | 6,690 |
| | | | ARCHITECTURAL - UNIT 6 TURBINE BUILDING ROOF | | 6,670.00 SF | - | - | | 85 | 101.39 /MH | 8,622 | 8,622 |
| | | | ARCHITECTURAL - UNIT 6 BOILER BUILDING SIDING | | 26,045.00 SF | - | - | | 133 | 85.54 /MH | 11,362 | 11,362 |
| | | | ARCHITECTURAL - UNIT 6 COAL BAY SIDING | | 6,620.00 SF | - | - | | 34 | 85.54 /MH | 2,888 | 2,888 |
| | | | ARCHITECTURAL - UNIT 6 TURBINE BUILDING SIDING | | 9,341.00 SF | - | - | | 48 | 85.54 /MH | 4,075 | 4,075 |
| | | | ARCHITECTURAL | | | | | | 488 | | 46,125 | 46,125 |
| | | 11.25.00 | CONCRETE CHIMNEY & STACK | | | | | | | | | |
| | | | DEMOLITION, CONCRETE CHIMNEY 7.4' DIA X 262' HIGH | TOP DOWN DEMOLITION | 573.00 CY | - | - | | 1,433 | 93.44 /MH | 133,853 | 133,853 |
| | | | CONCRETE CHIMNEY & STACK | | | | | | 1,433 | | 133,853 | 133,853 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 6 COAL BOILER AND APPURTENANCES | | 1,748.00 TN | - | - | 0 | 3,009 | 88.50 /MH | 266,259 | 266,259 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 PA, ID & FD FANS | | 228.00 TN | - | - | 0 | 392 | 99.95 /MH | 39,223 | 39,223 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 AIR HEATERS | | 601.00 TN | - | - | 0 | 1,034 | 99.95 /MH | 103,390 | 103,390 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 PULVERIZERS | | 343.00 TN | - | - | 0 | 590 | 99.95 /MH | 59,006 | 59,006 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 CONDENSERS | | 84.00 TN | - | - | 0 | 171 | 99.95 /MH | 17,127 | 17,127 |

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**INDIANAPOLIS POWER & LIGHT**
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**CONCEPTUAL ESTIMATE**

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 6 WATER TREATMENT EQUIPMENT | | 87.00 TN | - | - | 0 | 200 | 99.95 /MH | 19,956 | 19,956 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 HEAT EXCHANGERS | | 163.00 TN | - | - | 0 | 281 | 99.95 /MH | 28,041 | 28,041 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 TURBINE GENERATOR | | 751.00 TN | - | - | 0 | 1,724 | 99.95 /MH | 172,260 | 172,260 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 DUCTWORK | | 586.00 TN | - | - | 0 | 1,331 | 99.95 /MH | 133,019 | 133,019 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 PRECIPITATOR | | 549.00 TN | - | - | 0 | 945 | 99.95 /MH | 94,445 | 94,445 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 ASH HANDLING EQUIPMENT | | 350.00 TN | - | - | 0 | 602 | 99.95 /MH | 60,211 | 60,211 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 MISC. POWER PLANT EQUIPMENT | | 198.00 TN | - | - | 0 | 454 | 99.95 /MH | 45,416 | 45,416 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 MISC. SMALL TANKS | | 63.00 TN | - | - | 0 | 108 | 99.95 /MH | 10,838 | 10,838 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 CONDENSATE TANK | | 7.80 TN | - | - | | 13 | 99.95 /MH | 1,342 | 1,342 |
| | | | MECHANICAL EQUIPMENT - CIRC WATER SYSTEM EQUIPMENT (PUMPS, MOTORS & SWGR) | | 165.00 TN | - | - | | 379 | 99.95 /MH | 37,847 | 37,847 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 FGR DUCTWORK | | 47.00 TN | - | - | | 107 | 99.95 /MH | 10,669 | 10,669 |
| | | | MECHANICAL EQUIPMENT - UNIT 6 FGR FAN | | 10.90 TN | - | - | | 19 | 99.95 /MH | 1,875 | 1,875 |
| | | | **MECHANICAL EQUIPMENT** | | | | | | **11,360** | | **1,100,922** | **1,100,922** |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - UNIT 6 BOILER PIPING & SUPPORTS | | 413.00 TN | - | - | 0 | 948 | 99.95 /MH | 94,731 | 94,731 |
| | | | **PIPING** | | | | | | **948** | | **94,731** | **94,731** |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - UNIT 6 SWITCHGEAR | | 75.00 TN | - | - | 0 | 170 | 99.95 /MH | 17,025 | 17,025 |
| | | | **ELECTRICAL EQUIPMENT** | | | | | | **170** | | **17,025** | **17,025** |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - UNIT 6 MISC. | | 6.00 TN | - | - | | 60 | 124.87 /MH | 7,492 | 7,492 |
| | | | **CABLE** | | | | | | **60** | | **7,492** | **7,492** |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | WASTE | BUILDING WASTE | 727.00 CY | - | - | 0 | 254 | 116.90 /MH | 29,745 | 29,745 |
| | | | **WASTE** | | | | | | **254** | | **29,745** | **29,745** |
| | | | **DEMOLITION** | | | | | | **18,392** | | **1,810,164** | **1,810,164** |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 6 COAL BOILER AND APPURTENANCES | STEEL SALVAGE | -1,748.00 TN | - | (190,532) | - | | 115.91 /MH | | (190,532) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 PA, ID & FD FANS | STEEL SALVAGE | -228.00 TN | - | (24,852) | - | | 115.91 /MH | | (24,852) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 AIR HEATERS | STEEL SALVAGE | -601.00 TN | - | (65,509) | - | | 115.91 /MH | | (65,509) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 PULVERIZERS | STEEL SALVAGE | -343.00 TN | - | (37,387) | - | | 115.91 /MH | | (37,387) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 CONDENSER | STEEL SALVAGE | -39.10 TN | - | (4,262) | - | | 115.91 /MH | | (4,262) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 WATER TREATMENT EQUIPMENT | STEEL SALVAGE | -87.00 TN | - | (9,483) | - | | 115.91 /MH | | (9,483) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 HEAT EXCHANGERS | STEEL SALVAGE | -163.00 TN | - | (17,767) | - | | 115.91 /MH | | (17,767) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 TURBINE GENERATOR | STEEL SALVAGE | -736.00 TN | - | (80,224) | - | | 115.91 /MH | | (80,224) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 DUCTWORK | STEEL SALVAGE | -586.00 TN | - | (63,874) | - | | 115.91 /MH | | (63,874) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 PRECIPITATOR | STEEL SALVAGE | -549.00 TN | - | (59,841) | - | | 115.91 /MH | | (59,841) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 ASH HANDLING EQUIPMENT | STEEL SALVAGE | -350.00 TN | - | (38,150) | - | | 115.91 /MH | | (38,150) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 MISC. POWER PLANT EQUIPMENT | STEEL SALVAGE | -198.00 TN | - | (21,582) | - | | 115.91 /MH | | (21,582) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 MISC. SMALL TANKS | STEEL SALVAGE | -63.00 TN | - | (6,867) | - | | 115.91 /MH | | (6,867) |
| | | | ELECTRICAL EQUIPMENT - UNIT 6 SWITCHGEAR | STEEL SALVAGE | -75.00 TN | - | (8,175) | - | | 115.91 /MH | | (8,175) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 6 BOILER BUILDING | STEEL SALVAGE | -696.00 TN | - | (75,864) | - | | 115.91 /MH | | (75,864) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 6 COAL BAY | STEEL SALVAGE | -279.00 TN | - | (30,411) | - | | 115.91 /MH | | (30,411) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 6 TURBINE BUILDING | STEEL SALVAGE | -170.00 TN | - | (18,530) | - | | 115.91 /MH | | (18,530) |
| | | | MIXED STEEL - UNIT 6 BOILER AND TURBINE PIPING AND SUPPORTS | STEEL SALVAGE | -413.00 TN | - | (45,017) | - | | 115.91 /MH | | (45,017) |
| | | | MIXED STEEL - UNIT 6 CIRC WATER SYSTEM | STEEL SALVAGE | -165.00 TN | - | (17,985) | - | | 115.91 /MH | | (17,985) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 CONDENSER SS TUBES | STEEL SALVAGE | -2.16 TN | - | (235) | - | | 115.91 /MH | | (235) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 FGR DUCTWORK | STEEL SALVAGE | -47.00 TN | - | (5,123) | - | | 115.91 /MH | | (5,123) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 FGR FAN | STEEL SALVAGE | -10.90 TN | - | (1,188) | - | | 115.91 /MH | | (1,188) |
| | | | **MIXED STEEL** | | | | **(822,858)** | | | | | **(822,858)** |

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**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | UNIT 6 CABLE - MISC. | CU SALVAGE | -6.00 TN | - | (20,802) | - | | 115.91 /MH | | (20,802) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 TURBINE GENERATOR | CU SALVAGE | -15.00 TN | - | (52,005) | - | | 115.91 /MH | | (52,005) |
| | | | MECHANICAL EQUIPMENT - UNIT 6 CONDENSER ADMIRALTY BRASS TUBES | CU SALVAGE | -42.30 TN | - | (146,654) | - | | 115.91 /MH | | (146,654) |
| | | | COPPER | | | | (219,461) | | | | | (219,461) |
| | | | SCRAP VALUE | | | | (1,042,320) | | | | | (1,042,320) |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | FLOWABLE FILL - 2000 PSI | 36" DIA BURIED CIRC WATER PIPE, UNIT 6 | 78.00 CY | - | - | 7,956 | 39 | 79.86 /MH | 3,115 | 11,071 |
| | | | CONCRETE | | | | | 7,956 | 39 | | 3,115 | 11,071 |
| | | | CONCRETE | | | | | 7,956 | 39 | | 3,115 | 11,071 |
| | | | **HSS6 UNIT 6** | | | | **(1,042,320)** | **7,956** | **18,431** | | **1,813,279** | **778,915** |
| **HSS7** | | | **UNIT 7** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - GYPSUM STORAGE BUILDING, 175'X110' | | 713.00 CY | - | - | | 682 | 93.44 /MH | 63,708 | 63,708 |
| | | | CONCRETE FOUNDATION - ELECTRICAL BUILDING BY GYPSUM STORAGE BUILDING30'X20' | | 22.00 CY | - | - | | 21 | 93.44 /MH | 1,966 | 1,966 |
| | | | CONCRETE FOUNDATION - MILL STORAGE SHED, 65'X40' | | 96.00 CY | - | - | | 92 | 93.44 /MH | 8,578 | 8,578 |
| | | | CONCRETE FOUNDATION - FGD STORAGE BUILDING, 40'X35' | | 52.00 CY | - | - | | 50 | 93.44 /MH | 4,646 | 4,646 |
| | | | CONCRETE FOUNDATION - UNIT 7 BOILER BUILDING, 140'X130' | | 1,348.00 CY | - | - | | 969 | 93.44 /MH | 90,576 | 90,576 |
| | | | CONCRETE FOUNDATION - UNIT 7 COAL BAY, 180'X25' | | 333.00 CY | - | - | | 239 | 93.44 /MH | 22,375 | 22,375 |
| | | | CONCRETE FOUNDATION - UNIT 7 TURBINE BUILDING, 200'X115' | | 1,704.00 CY | - | - | | 1,225 | 93.44 /MH | 114,496 | 114,496 |
| | | | CONCRETE FOUNDATION - UNIT 7 FGD BUILDING, 130'X110' | | 1,059.00 CY | - | - | | 1,013 | 93.44 /MH | 94,624 | 94,624 |
| | | | CONCRETE FOUNDATION - UNIT 7 LIME PREP BUILDING, 100'X50' | | 370.00 CY | - | - | | 354 | 93.44 /MH | 33,060 | 33,060 |
| | | | CONCRETE FOUNDATION - UNIT 7 TURBINE PEDESTAL | | 1,533.00 CY | - | - | | 2,345 | 93.44 /MH | 219,163 | 219,163 |
| | | | CONCRETE FOUNDATION - UNIT 7 FAN FOUNDATIONS | | 386.00 CY | - | - | | 369 | 93.44 /MH | 34,490 | 34,490 |
| | | | CONCRETE - U7 CIRC WATER SYSTEM PIPING & TUNNELS | ALLOWANCE | 1.00 LS | - | - | | 1,084 | 93.44 /MH | 101,289 | 101,289 |
| | | | CONCRETE FOUNDATION - GYPSUM AND LIMESTONE TRANSFER TOWERS | | 45.00 CY | - | - | | 43 | 93.44 /MH | 4,021 | 4,021 |
| | | | CONCRETE FOUNDATION - ELEVATED CONCRETE FLOORS AND STAIRS | | 1,660.00 CY | - | - | | 1,127 | 93.44 /MH | 105,343 | 105,343 |
| | | | CONCRETE FOUNDATION - MISC. EQUIPMENT PADS | | 875.00 CY | - | - | | 837 | 93.44 /MH | 78,183 | 78,183 |
| | | | CONCRETE - DISCHARGE OUTFALL STRUCTURE | | 2,222.00 CY | - | - | | 2,125 | 93.44 /MH | 198,540 | 198,540 |
| | | | CONCRETE FOUNDATION - SCR FOUNDATION | | 405.00 CY | - | - | | 387 | 93.44 /MH | 36,188 | 36,188 |
| | | | CONCRETE FOUNDATION - TRANSFORMER FOUNDATIONS & FIRE WALLS | | 304.00 CY | - | - | | 291 | 93.44 /MH | 27,163 | 27,163 |
| | | | CONCRETE FOUNDATION - UNIT 7 FGR FAN FOUNDATIONS | | 90.00 CY | - | - | | 86 | 93.44 /MH | 8,042 | 8,042 |
| | | | CONCRETE | | | | | | 13,340 | | 1,246,450 | 1,246,450 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - UNIT 7 BOILER BUILDING | | 2,512.00 TN | - | - | | 2,169 | 115.91 /MH | 251,440 | 251,440 |
| | | | STRUCTURAL STEEL - UNIT 7 COAL BAY | | 203.00 TN | - | - | | 175 | 115.91 /MH | 20,319 | 20,319 |
| | | | STRUCTURAL STEEL - UNIT 7 TURBINE BUILDING | | 1,104.00 TN | - | - | | 953 | 115.91 /MH | 110,506 | 110,506 |
| | | | STRUCTURAL STEEL - UNIT 7 FGD BUILDING | | 644.00 TN | - | - | | 556 | 115.91 /MH | 64,462 | 64,462 |
| | | | STRUCTURAL STEEL - UNIT 7 LIME PREP BUILDING | | 188.00 TN | - | - | | 162 | 115.91 /MH | 18,818 | 18,818 |
| | | | STRUCTURAL STEEL - UNIT 7 SCR SUPPORT STEEL | | 3,272.00 TN | - | - | | 2,826 | 115.91 /MH | 327,513 | 327,513 |
| | | | STRUCTURAL STEEL - UNIT 7 FGD DUCT SUPPORT STEEL | | 121.00 TN | - | - | | 104 | 115.91 /MH | 12,112 | 12,112 |
| | | | STEEL | | | | | | 6,947 | | 805,169 | 805,169 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - GYPSUM STORAGE BUILDING Gypsum Storage Bldg | | 1,443,750.00 CF | - | - | | 5,775 | 85.54 /MH | 493,994 | 493,994 |
| | | | ARCHITECTURAL - ELECTRICAL BUILDING BY GYPSUM STORAGE BUILDING Gypsum Storage Bldg | | 9,600.00 CF | - | - | | 38 | 85.54 /MH | 3,285 | 3,285 |
| | | | ARCHITECTURAL - MILL STORAGE SHED | | 62,400.00 CF | - | - | | 250 | 85.54 /MH | 21,351 | 21,351 |
| | | | ARCHITECTURAL - FGD STORAGE BUILDING | | 28,000.00 CF | - | - | | 112 | 85.54 /MH | 9,580 | 9,580 |
| | | | ARCHITECTURAL - UNIT 7 BOILER BUILDING ROOF | | 18,200.00 SF | - | - | | 232 | 101.39 /MH | 23,528 | 23,528 |

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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - UNIT 7 COAL BAY ROOF | | 4,500.00 SF | - | - | | 57 | 101.39 /MH | 5,817 | 5,817 |
| | | | ARCHITECTURAL - UNIT 7 TURBINE BUILDING ROOF | | 23,000.00 SF | - | - | | 293 | 101.39 /MH | 29,733 | 29,733 |
| | | | ARCHITECTURAL - UNIT 7 FGD BUILDING ROOF | | 14,300.00 SF | - | - | | 182 | 101.39 /MH | 18,486 | 18,486 |
| | | | ARCHITECTURAL - UNIT 7 LIME PREP BUILDING ROOF | | 5,000.00 SF | - | - | | 64 | 101.39 /MH | 6,464 | 6,464 |
| | | | ARCHITECTURAL - UNIT 7 BOILER BUILDING SIDING | | 124,200.00 SF | - | - | | 633 | 85.54 /MH | 54,183 | 54,183 |
| | | | ARCHITECTURAL - UNIT 7 COAL BAY SIDING | | 14,250.00 SF | - | - | | 73 | 85.54 /MH | 6,217 | 6,217 |
| | | | ARCHITECTURAL - UNIT 7 TURBINE BUILDING SIDING | | 41,280.00 SF | - | - | | 211 | 85.54 /MH | 18,009 | 18,009 |
| | | | ARCHITECTURAL - UNIT 7 FGD BUILDING SIDING | | 43,200.00 SF | - | - | | 220 | 85.54 /MH | 18,846 | 18,846 |
| | | | ARCHITECTURAL - UNIT 7 LIME PREP BUILDING SIDING | | 24,000.00 SF | - | - | | 122 | 85.54 /MH | 10,470 | 10,470 |
| | | | ARCHITECTURAL - GYPSUM TRANSFER TOWERS | | 48,000.00 CF | - | - | | 192 | 85.54 /MH | 16,424 | 16,424 |
| | | | **ARCHITECTURAL** | | | | | | **8,455** | | **736,384** | **736,384** |
| | | 11.25.00 | CONCRETE CHIMNEY & STACK | | | | | | | | | |
| | | | DEMOLITION, CONCRETE CHIMNEY 20' DIA X 565' HIGH | TOP DOWN DEMOLITION | 4,536.00 CY | - | - | | 11,340 | 93.44 /MH | 1,059,610 | 1,059,610 |
| | | | DEMOLITION, CONCRETE CHIMNEY 26' DIA X 565' HIGH | TOP DOWN DEMOLITION | 5,416.00 CY | - | - | | 13,540 | 93.44 /MH | 1,265,178 | 1,265,178 |
| | | | DEMOLITION, CARBON STEEL LINER 26' DIA X 535' HIGH | | 334.00 TN | - | - | | 767 | 93.44 /MH | 71,625 | 71,625 |
| | | | **CONCRETE CHIMNEY & STACK** | | | | | | **25,647** | | **2,396,412** | **2,396,412** |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 7 COAL BOILER AND APPURTENANCES | DEMOLITION - INCLUDES AIR HEATER, PULVERIZERS, FEEDWATER & CONDENSATE PUMPS, PA, ID & FD FANS | 9,141.00 TN | - | - | 0 | 15,734 | 88.50 /MH | 1,392,376 | 1,392,376 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 CONDENSERS | | 411.00 TN | - | - | 0 | 838 | 99.95 /MH | 83,798 | 83,798 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 WATER TREATMENT EQUIPMENT | | 172.00 TN | - | - | 0 | 395 | 99.95 /MH | 39,452 | 39,452 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FEEDWATER DEAERATING EQUIPMENT | | 152.00 TN | - | - | 0 | 262 | 99.95 /MH | 26,149 | 26,149 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 TURBINE GENERATOR | | 1,048.00 TN | - | - | 0 | 2,405 | 99.95 /MH | 240,384 | 240,384 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 DUCTWORK | | 1,722.00 TN | - | - | 0 | 3,911 | 99.95 /MH | 390,886 | 390,886 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 ASH HANDLING EQUIPMENT | | 101.00 TN | - | - | 0 | 174 | 99.95 /MH | 17,375 | 17,375 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 SCR EQUIPMENT | | 340.00 TN | - | - | 0 | 585 | 99.95 /MH | 58,490 | 58,490 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGD AND LIMESTONE PREP EQUIPMENT | | 316.00 TN | - | - | 0 | 544 | 99.95 /MH | 54,362 | 54,362 |
| | | | MECHANICAL EQUIPMENT - MAIN BUILDING ELEVATOR | | 1.00 EA | - | - | 0 | 179 | 99.95 /MH | 17,840 | 17,840 |
| | | | MECHANICAL EQUIPMENT - MAIN BUILDING HVAC | | 1.00 LS | - | - | 0 | 1,519 | 99.95 /MH | 151,816 | 151,816 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 MISC. POWER PLANT EQUIPMENT | | 533.00 TN | - | - | 0 | 1,223 | 99.95 /MH | 122,256 | 122,256 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 MISC. SMALL TANKS | | 112.00 TN | - | - | 0 | 193 | 99.95 /MH | 19,267 | 19,267 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 SCR DUCTWORK | | 1,702.00 TN | - | - | 0 | 3,866 | 99.95 /MH | 386,346 | 386,346 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGD DUCTWORK | | 309.00 TN | - | - | 0 | 702 | 99.95 /MH | 70,141 | 70,141 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGD TANK 1 | | 20.90 TN | - | - | | 36 | 99.95 /MH | 3,595 | 3,595 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGD TANK 2 | | 40.00 TN | - | - | | 69 | 99.95 /MH | 6,881 | 6,881 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGD TANK 3 | | 65.00 TN | - | - | | 112 | 99.95 /MH | 11,182 | 11,182 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGD TANK 4 | | 65.00 TN | - | - | | 112 | 99.95 /MH | 11,182 | 11,182 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGD TANK 5 | | 37.00 TN | - | - | | 64 | 99.95 /MH | 6,365 | 6,365 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGD ABSORBER | | 973.00 TN | - | - | | 1,675 | 99.95 /MH | 167,386 | 167,386 |
| | | | MECHANICAL EQUIPMENT - CIRC WATER SYSTEM EQUIPMENT (PUMPS, MOTORS & SWGR) | | 355.00 TN | - | - | | 815 | 99.95 /MH | 81,428 | 81,428 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGR DUCTWORK | | 125.00 TN | - | - | | 284 | 99.95 /MH | 28,374 | 28,374 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGR FANS | | 36.00 TN | - | - | | 62 | 99.95 /MH | 6,193 | 6,193 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 GAS CONVERSION DUCTWORK | REPLACEMENT AH OUTLET TO ID FAN INLET DUCTWORK | 363.00 TN | - | - | | 824 | 99.95 /MH | 82,399 | 82,399 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 GAS CONVERSION DUCTWORK | REPLACEMENT ID FAN OUTLET TO CHIMNEY BREECHING DUCTWORK | 159.00 TN | - | - | | 361 | 99.95 /MH | 36,092 | 36,092 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 GAS CONVERSION DUCTWORK | NEW DUCTWORK BLANKING PLATE AT AIR HEATER HOPPERS | 5.00 TN | - | - | | 11 | 99.95 /MH | 1,135 | 1,135 |
| | | | MECHANICAL EQUIPMENT - UNIT 7 GAS CONVERSION DUCTWORK | NEW DUCTWORK BLANKING PLATE AT SCR BYPASS | 24.00 TN | - | - | | 55 | 99.95 /MH | 5,448 | 5,448 |
| | | | **MECHANICAL EQUIPMENT** | | | | | | **37,008** | | **3,518,599** | **3,518,599** |
| | | 11.33.00 | MATERIAL HANDLING EQUIPMENT | | | | | | | | | |
| | | | MATERIAL HANDLING EQUIPMENT - LIMESTONE FEEDER BELT 7-1 | | 40.00 TN | - | - | | 92 | 99.95 /MH | 9,175 | 9,175 |
| | | | MATERIAL HANDLING EQUIPMENT - LIMESTONE CONVEYOR L7-1 | | 144.00 TN | - | - | | 330 | 99.95 /MH | 33,030 | 33,030 |
| | | | MATERIAL HANDLING EQUIPMENT - LIMESTONE CONVEYOR L7-2 | | 100.00 TN | - | - | | 230 | 99.95 /MH | 22,937 | 22,937 |
| | | | MATERIAL HANDLING EQUIPMENT - LIMESTONE CONVEYOR L7-3 | | 13.00 TN | - | - | | 30 | 99.95 /MH | 2,982 | 2,982 |
| | | | MATERIAL HANDLING EQUIPMENT - GYPSUM CONVEYOR GT-3 | | 100.00 TN | - | - | | 230 | 99.95 /MH | 22,937 | 22,937 |

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Sargent & Lundy

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.33.00 | MATERIAL HANDLING EQUIPMENT | | | | | | | | | |
| | | | MATERIAL HANDLING EQUIPMENT - GYPSUM CONVEYOR GT-4 | | 144.00 TN | - | - | | 330 | 99.95 /MH | 33,030 | 33,030 |
| | | | MATERIAL HANDLING EQUIPMENT | | | | | | 1,242 | | 124,091 | 124,091 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - UNIT 7 BOILER AND TURBINE PIPING & SUPPORTS | | 1,808.00 TN | - | - | 0 | 4,149 | 99.95 /MH | 414,708 | 414,708 |
| | | | PIPING - UNIT 7 FGD PIPING | | 47.00 TN | - | - | | 108 | 99.95 /MH | 10,781 | 10,781 |
| | | | PIPING | | | | | | 4,257 | | 425,488 | 425,488 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - UNIT 7 TRANSFORMER & SWITCHGEAR - STEEL | | 298.00 TN | - | - | | 677 | 99.95 /MH | 67,645 | 67,645 |
| | | | ELECTRICAL EQUIPMENT - UNIT 7 TRANSFORMER & SWITCHGEAR - COPPER | | 412.00 TN | - | - | | 936 | 99.95 /MH | 93,522 | 93,522 |
| | | | ELECTRICAL EQUIPMENT - MAIN BUILDING ELECTRICAL | | 1.00 LS | - | - | | 2,000 | 99.95 /MH | 199,890 | 199,890 |
| | | | ELECTRICAL EQUIPMENT - SCR ELECTRICAL | | 1.00 LS | - | - | | 1,000 | 99.95 /MH | 99,945 | 99,945 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 4,613 | | 461,002 | 461,002 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - UNIT 7 MISC. | | 14.00 TN | - | - | | 140 | 124.87 /MH | 17,482 | 17,482 |
| | | | CABLE - UNIT 7 FGD WIRING | | 10.30 TN | - | - | | 103 | 124.87 /MH | 12,862 | 12,862 |
| | | | CABLE | | | | | | 243 | | 30,343 | 30,343 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | WASTE | BUILDING WASTE | 2,491.00 CY | - | - | 0 | 872 | 116.90 /MH | 101,919 | 101,919 |
| | | | WASTE | | | | | | 872 | | 101,919 | 101,919 |
| | | | DEMOLITION | | | | | | 102,622 | | 9,845,857 | 9,845,857 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 7 COAL BOILER AND APPURTENANCES | STEEL SALVAGE | -9,141.00 TN | - | (996,369) | - | | 115.91 /MH | | (996,369) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 CONDENSER | STEEL SALVAGE | -411.00 TN | - | (44,799) | - | | 115.91 /MH | | (44,799) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 WATER TREATMENT EQUIPMENT | STEEL SALVAGE | -172.00 TN | - | (18,748) | - | | 115.91 /MH | | (18,748) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 HEAT EXCHANGERS | STEEL SALVAGE | -152.00 TN | - | (16,568) | - | | 115.91 /MH | | (16,568) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 TURBINE GENERATOR | STEEL SALVAGE | -1,027.00 TN | - | (111,943) | - | | 115.91 /MH | | (111,943) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 DUCTWORK | STEEL SALVAGE | -1,722.00 TN | - | (187,698) | - | | 115.91 /MH | | (187,698) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 ASH HANDLING EQUIPMENT | STEEL SALVAGE | -101.00 TN | - | (11,009) | - | | 115.91 /MH | | (11,009) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 SCR | STEEL SALVAGE | -2,042.00 TN | - | (222,578) | - | | 115.91 /MH | | (222,578) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGD & LIMESTONE PREP EQUIPMENT | STEEL SALVAGE | -316.00 TN | - | (34,444) | - | | 115.91 /MH | | (34,444) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 MISC. POWER PLANT EQUIPMENT | STEEL SALVAGE | -533.00 TN | - | (58,097) | - | | 115.91 /MH | | (58,097) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 MISC. SMALL TANKS | STEEL SALVAGE | -112.00 TN | - | (12,208) | - | | 115.91 /MH | | (12,208) |
| | | | ELECTRICAL EQUIPMENT - UNIT 7 TRANSFORMERS & SWITCHGEAR | STEEL SALVAGE | -298.00 TN | - | (32,482) | - | | 115.91 /MH | | (32,482) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 7 BOILER BUILDING | STEEL SALVAGE | -2,512.00 TN | - | (273,808) | - | | 115.91 /MH | | (273,808) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 7 COAL BAY | STEEL SALVAGE | -203.00 TN | - | (22,127) | - | | 115.91 /MH | | (22,127) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 7 TURBINE BUILDING | STEEL SALVAGE | -1,104.00 TN | - | (120,336) | - | | 115.91 /MH | | (120,336) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 7 SCR | STEEL SALVAGE | -3,272.00 TN | - | (356,648) | - | | 115.91 /MH | | (356,648) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 7 FGD | STEEL SALVAGE | -644.00 TN | - | (70,196) | - | | 115.91 /MH | | (70,196) |
| | | | MIXED STEEL - STRUCTURAL AND GIRT STEEL - UNIT 7 LIMESTONE PREP | STEEL SALVAGE | -188.00 TN | - | (20,492) | - | | 115.91 /MH | | (20,492) |
| | | | MIXED STEEL - UNIT 7 BOILER AND TURBINE PIPING AND SUPPORTS | STEEL SALVAGE | -1,808.00 TN | - | (197,072) | - | | 115.91 /MH | | (197,072) |
| | | | MIXED STEEL - UNIT 7 CIRC WATER SYSTEM | STEEL SALVAGE | -355.00 TN | - | (38,695) | - | | 115.91 /MH | | (38,695) |
| | | | MATERIAL HANDLING EQUIPMENT - GYPSUM/LIMESTONE CONVEYORS | STEEL SALVAGE | -541.00 TN | - | (58,969) | - | | 115.91 /MH | | (58,969) |
| | | | MIXED STEEL - UNIT 7 FGD TANK 1 | STEEL SALVAGE | -20.90 TN | - | (2,278) | - | | 115.91 /MH | | (2,278) |
| | | | MIXED STEEL - UNIT 7 FGD TANK 2 | STEEL SALVAGE | -40.00 TN | - | (4,360) | - | | 115.91 /MH | | (4,360) |
| | | | MIXED STEEL - UNIT 7 FGD TANK 3 | STEEL SALVAGE | -65.00 TN | - | (7,085) | - | | 115.91 /MH | | (7,085) |
| | | | MIXED STEEL - UNIT 7 FGD TANK 4 | STEEL SALVAGE | -65.00 TN | - | (7,085) | - | | 115.91 /MH | | (7,085) |
| | | | MIXED STEEL - UNIT 7 FGD TANK 5 | STEEL SALVAGE | -37.00 TN | - | (4,033) | - | | 115.91 /MH | | (4,033) |

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Estimate Date: 9/30/2016
Prep/Rev/App: RCK, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**HARDING STREET DECOMMISSIONING**
**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGR DUCTWORK | STEEL SALVAGE | -125.00 TN | - | (13,625) | - | | 115.91 /MH | | (13,625) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGR FANS | STEEL SALVAGE | -36.00 TN | - | (3,924) | - | | 115.91 /MH | | (3,924) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 GAS CONVERSION DUCTWORK | STEEL SALVAGE | -551.00 TN | - | (60,059) | - | | 115.91 /MH | | (60,059) |
| | | | MIXED STEEL | | | | (3,007,735) | | | | | (3,007,735) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - UNIT 7 TRANSFORMERS & SWITCJGEAR | CU SALVAGE | -412.00 TN | - | (1,428,404) | - | | 115.91 /MH | | (1,428,404) |
| | | | UNIT 7 CABLE - MISC. | CU SALVAGE | -14.00 TN | - | (48,538) | - | | 115.91 /MH | | (48,538) |
| | | | MECHANICAL EQUIPMENT - UNIT 7 TURBINE GENERATOR | CU SALVAGE | -21.00 TN | - | (72,807) | - | | 115.91 /MH | | (72,807) |
| | | | COPPER | | | | (1,549,749) | | | | | (1,549,749) |
| | | 18.99.00 | MISCELLANEOUS | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - UNIT 7 FGD ABSORBER - AL6XN | | -973.00 TN | - | (2,919,000) | | | 115.91 /MH | | (2,919,000) |
| | | | MISCELLANEOUS | | | | (2,919,000) | | | | | (2,919,000) |
| | | | SCRAP VALUE | | | | (7,476,484) | | | | | (7,476,484) |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.17.00 | EARTHWORK | | | | | | | | | |
| | | | MASS FILL, COMMON EARTH USING DUMP TRUCK, DISCHARGE STRUCTURE | COVER DISTURBED AREA W 2' OF COMMON EARTH | 2,222.00 CY | - | - | 37,774 | 78 | 192.84 /MH | 14,997 | 52,771 |
| | | | EARTHWORK | | | | | 37,774 | 78 | | 14,997 | 52,771 |
| | | | CIVIL WORK | | | | | 37,774 | 78 | | 14,997 | 52,771 |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | FLOWABLE FILL - 2000 PSI | 48" DIA BURIED CIRC WATER PIPE, UNIT 7 | 163.00 CY | - | - | 16,626 | 82 | 79.86 /MH | 6,509 | 23,135 |
| | | | CONCRETE | | | | | 16,626 | 82 | | 6,509 | 23,135 |
| | | | CONCRETE | | | | | 16,626 | 82 | | 6,509 | 23,135 |
| | | | **HSS7 UNIT 7** | | | | **(7,476,484)** | **54,400** | **102,781** | | **9,867,363** | **2,445,279** |
| **HSSGT 1,2,3** | | | **GAS UNITS 1,2 AND 3** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - CT FOUNDATIONS | | 591.00 CY | - | - | | 565 | 93.44 /MH | 52,807 | 52,807 |
| | | | CONCRETE FOUNDATION - CONTROL HOUSE FOUNDATION | | 40.00 CY | - | - | | 38 | 93.44 /MH | 3,574 | 3,574 |
| | | | CONCRETE FOUNDATION - TRANSFORMER FOUNDATION | | 45.00 CY | - | - | | 43 | 93.44 /MH | 4,021 | 4,021 |
| | | | CONCRETE FOUNDATION - MISC. | | 90.00 CY | - | - | | 86 | 93.44 /MH | 8,042 | 8,042 |
| | | | CONCRETE | | | | | | 732 | | 68,444 | 68,444 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - COMBUSTION TURBINE SETS WITH ACCESSORIES | | 288.90 TN | - | - | | 663 | 99.95 /MH | 66,266 | 66,266 |
| | | | MECHANICAL EQUIPMENT - MISC. PUMPS AND EQUIPMENT | | 9.00 TN | - | - | | 15 | 99.95 /MH | 1,548 | 1,548 |
| | | | MECHANICAL EQUIPMENT | | | | | | 679 | | 67,814 | 67,814 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - UNITS GT1,2, AND 3 MISC. | | 6.00 TN | - | - | | 60 | 124.87 /MH | 7,492 | 7,492 |
| | | | CABLE | | | | | | 60 | | 7,492 | 7,492 |
| | | | DEMOLITION | | | | | | 1,471 | | 143,750 | 143,750 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - COMBUSTION TURBINE SETS WITH ACCESSORIES | STEEL SALVAGE | -275.40 TN | - | (30,019) | - | | 115.91 /MH | | (30,019) |
| | | | MECHANICAL EQUIPMENT - MISC. PUMPS AND EQUIPMENT | STEEL SALVAGE | -9.00 TN | - | (981) | - | | 115.91 /MH | | (981) |
| | | | MIXED STEEL | | | | (31,000) | | | | | (31,000) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - GENERATOR | CU SALVAGE | -13.50 TN | - | (46,805) | - | | 115.91 /MH | | (46,805) |
| | | | CABLE - MISC. | CU SALVAGE | -6.00 TN | - | (20,802) | - | | 115.91 /MH | | (20,802) |
| | | | COPPER | | | | (67,607) | | | | | (67,607) |

Estimate No..: 32707I
Project No.: 10572-097
Estimate Date: 9/30/2016
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**INDIANAPOLIS POWER & LIGHT**
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**CONCEPTUAL ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SCRAP VALUE | | | | (98,606) | | | | | (98,606) |
| | | | **HSSGT 1,2,3 GAS UNITS 1,2 AND 3** | | | | **(98,606)** | | **1,471** | | **143,750** | **45,144** |
| **HSSGT4** | | | **GAS UNIT 4** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - GT4 BUILDING FOUNDATION | | 667.00 CY | - | - | | 638 | 93.44 /MH | 59,598 | 59,598 |
| | | | CONCRETE FOUNDATION - SHOP BUILDING FOUNDATION | | 89.00 CY | - | - | | 85 | 93.44 /MH | 7,952 | 7,952 |
| | | | CONCRETE FOUNDATION - CT FOUNDATION | | 406.00 CY | - | - | | 621 | 93.44 /MH | 58,043 | 58,043 |
| | | | CONCRETE FOUNDATION - TRANSFORMERS FOUNDATION | | 88.00 CY | - | - | | 84 | 93.44 /MH | 7,863 | 7,863 |
| | | | CONCRETE FOUNDATION - MISC. FOUNDATION | | 20.00 CY | - | - | | 19 | 93.44 /MH | 1,787 | 1,787 |
| | | | CONCRETE | | | | | | 1,447 | | 135,243 | 135,243 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - HSS GT 4 BUILDING | | 225.00 TN | - | - | | 194 | 115.91 /MH | 22,522 | 22,522 |
| | | | STRUCTURAL STEEL - SHOP BUILDING | | 12.00 TN | - | - | | 10 | 115.91 /MH | 1,201 | 1,201 |
| | | | STEEL | | | | | | 205 | | 23,723 | 23,723 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - GT4 BUILDING ROOF | | 9,000.00 SF | - | - | | 115 | 101.39 /MH | 11,635 | 11,635 |
| | | | ARCHITECTURAL - GT4 BUILDING SIDING | | 18,000.00 SF | - | - | | 92 | 85.54 /MH | 7,853 | 7,853 |
| | | | ARCHITECTURAL | | | | | | 207 | | 19,487 | 19,487 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - GT4 COMBUSTION TURBINE SET WITH ACCESSORIES | | 337.00 TN | - | - | | 580 | 99.95 /MH | 57,974 | 57,974 |
| | | | MECHANICAL EQUIPMENT - MISC. PUMPS AND EQUIPMENT | | 6.00 TN | - | - | | 10 | 99.95 /MH | 1,032 | 1,032 |
| | | | MECHANICAL EQUIPMENT | | | | | | 590 | | 59,006 | 59,006 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - UNIT HSS GT4 PIPING | | 31.00 TN | - | - | | 71 | 99.95 /MH | 7,111 | 7,111 |
| | | | PIPING | | | | | | 71 | | 7,111 | 7,111 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - GT4 TRANSFORMER STEEL | | 16.00 TN | - | - | | 36 | 99.95 /MH | 3,632 | 3,632 |
| | | | ELECTRICAL EQUIPMENT - GT4 TRANSFORMER COPPER | | 31.00 TN | - | - | | 70 | 99.95 /MH | 7,037 | 7,037 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 107 | | 10,669 | 10,669 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - UNIT GT4 MISC. | | 4.00 TN | - | - | | 40 | 124.87 /MH | 4,995 | 4,995 |
| | | | CABLE | | | | | | 40 | | 4,995 | 4,995 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | WASTE | BUILDING WASTE | 167.00 CY | - | - | 0 | 58 | 116.90 /MH | 6,833 | 6,833 |
| | | | WASTE | | | | | | 58 | | 6,833 | 6,833 |
| | | | DEMOLITION | | | | | | 2,725 | | 267,066 | 267,066 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - COMBUSTION TURBINE SET WITH ACCESSORIES | STEEL SALVAGE | -337.00 TN | - | (36,733) | - | | 115.91 /MH | | (36,733) |
| | | | MECHANICAL EQUIPMENT - MISC. PUMPS AND EQUIPMENT | STEEL SALVAGE | -6.00 TN | - | (654) | - | | 115.91 /MH | | (654) |
| | | | ELECTRICAL EQUIPMENT - TRANSFORMER | STEEL SALVAGE | -16.00 TN | - | (1,744) | - | | 115.91 /MH | | (1,744) |
| | | | MIXED STEEL | | | | (39,131) | | | | | (39,131) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - GT4 TRANSFORMERS | CU SALVAGE | -31.00 TN | - | (107,477) | - | | 115.91 /MH | | (107,477) |
| | | | UNIT GT4 CABLE - MISC. | CU SALVAGE | -4.00 TN | - | (13,868) | - | | 115.91 /MH | | (13,868) |
| | | | MECHANICAL EQUIPMENT - UNIT GT4 TURBINE GENERATOR | CU SALVAGE | -16.00 TN | - | (55,472) | - | | 115.91 /MH | | (55,472) |
| | | | COPPER | | | | (176,817) | | | | | (176,817) |
| | | | SCRAP VALUE | | | | (215,948) | | | | | (215,948) |
| | | | **HSSGT4 GAS UNIT 4** | | | | **(215,948)** | | **2,725** | | **267,066** | **51,118** |
| **HSSGT5** | | | **GAS UNIT 5** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |

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| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - GT5 BUILDING FOUNDATION | | 667.00 CY | - | - | | 638 | 93.44 /MH | 59,598 | 59,598 |
| | | | CONCRETE FOUNDATION - CONTROL BUILDING FOUNDATION | | 204.00 CY | - | - | | 195 | 93.44 /MH | 18,228 | 18,228 |
| | | | CONCRETE FOUNDATION - CT FOUNDATION | | 406.00 CY | - | - | | 621 | 93.44 /MH | 58,043 | 58,043 |
| | | | CONCRETE FOUNDATION - TRANSFORMERS FOUNDATION | | 88.00 CY | - | - | | 84 | 93.44 /MH | 7,863 | 7,863 |
| | | | CONCRETE FOUNDATION - MISC. FOUNDATION | | 20.00 CY | - | - | | 19 | 93.44 /MH | 1,787 | 1,787 |
| | | | CONCRETE | | | | | | 1,557 | | 145,519 | 145,519 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - HSS GT 5 BUILDING | | 225.00 TN | - | - | | 194 | 115.91 /MH | 22,522 | 22,522 |
| | | | STRUCTURAL STEEL - CONTROL BUILDING | | 19.00 TN | - | - | | 16 | 115.91 /MH | 1,902 | 1,902 |
| | | | STEEL | | | | | | 211 | | 24,423 | 24,423 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - GT5 BUILDING ROOF | | 9,000.00 SF | - | - | | 115 | 101.39 /MH | 11,635 | 11,635 |
| | | | ARCHITECTURAL - GT5 BUILDING SIDING | | 18,000.00 SF | - | - | | 92 | 85.54 /MH | 7,853 | 7,853 |
| | | | ARCHITECTURAL - GT5 CONTROL BUILDING ROOF | | 2,750.00 SF | - | - | | 35 | 101.39 /MH | 3,555 | 3,555 |
| | | | ARCHITECTURAL - GT5 CONTROL BUILDING SIDING | | 2,940.00 SF | - | - | | 15 | 85.54 /MH | 1,283 | 1,283 |
| | | | ARCHITECTURAL | | | | | | 257 | | 24,325 | 24,325 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - GT5 COMBUSTION TURBINE SET WITH ACCESSORIES | | 337.00 TN | - | - | | 580 | 99.95 /MH | 57,974 | 57,974 |
| | | | MECHANICAL EQUIPMENT - MISC. PUMPS AND EQUIPMENT | | 6.00 TN | - | - | | 10 | 99.95 /MH | 1,032 | 1,032 |
| | | | MECHANICAL EQUIPMENT | | | | | | 590 | | 59,006 | 59,006 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - UNIT HSS GT5 PIPING | | 31.00 TN | - | - | | 71 | 99.95 /MH | 7,111 | 7,111 |
| | | | PIPING | | | | | | 71 | | 7,111 | 7,111 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - GT5 TRANSFORMER STEEL | | 16.00 TN | - | - | | 36 | 99.95 /MH | 3,632 | 3,632 |
| | | | ELECTRICAL EQUIPMENT - GT5 TRANSFORMER COPPER | | 31.00 TN | - | - | | 70 | 99.95 /MH | 7,037 | 7,037 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 107 | | 10,669 | 10,669 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - UNIT GT5 MISC. | | 4.00 TN | - | - | | 40 | 124.87 /MH | 4,995 | 4,995 |
| | | | CABLE | | | | | | 40 | | 4,995 | 4,995 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | WASTE | BUILDING WASTE | 167.00 CY | - | - | 0 | 58 | 116.90 /MH | 6,833 | 6,833 |
| | | | WASTE | | | | | | 58 | | 6,833 | 6,833 |
| | | | DEMOLITION | | | | | | 2,891 | | 282,880 | 282,880 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - COMBUSTION TURBINE SET WITH ACCESSORIES | STEEL SALVAGE | -337.00 TN | - | (36,733) | - | | 115.91 /MH | | (36,733) |
| | | | MECHANICAL EQUIPMENT - MISC. PUMPS AND EQUIPMENT | STEEL SALVAGE | -6.00 TN | - | (654) | - | | 115.91 /MH | | (654) |
| | | | ELECTRICAL EQUIPMENT - TRANSFORMER | STEEL SALVAGE | -16.00 TN | - | (1,744) | - | | 115.91 /MH | | (1,744) |
| | | | MIXED STEEL | | | | (39,131) | | | | | (39,131) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - GT5 TRANSFORMERS | CU SALVAGE | -31.00 TN | - | (107,477) | - | | 115.91 /MH | | (107,477) |
| | | | UNIT GT5 CABLE - MISC. | CU SALVAGE | -4.00 TN | - | (13,868) | - | | 115.91 /MH | | (13,868) |
| | | | MECHANICAL EQUIPMENT - UNIT GT5 TURBINE GENERATOR | CU SALVAGE | -16.00 TN | - | (55,472) | - | | 115.91 /MH | | (55,472) |
| | | | COPPER | | | | (176,817) | | | | | (176,817) |
| | | | SCRAP VALUE | | | | (215,948) | | | | | (215,948) |
| | | | **HSSGT5 GAS UNIT 5** | | | | **(215,948)** | | **2,891** | | **282,880** | **66,932** |
| **HSSGT6** | | | **GAS UNIT 6** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - CT FOUNDATION | | 1,889.00 CY | - | - | | 2,890 | 93.44 /MH | 270,057 | 270,057 |

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| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - TRANSFORMERS FOUNDATION | | 128.00 CY | - | - | | 122 | 93.44 /MH | 11,437 | 11,437 |
| | | | CONCRETE FOUNDATION - MISC. FOUNDATION | | 300.00 CY | - | - | | 287 | 93.44 /MH | 26,806 | 26,806 |
| | | | CONCRETE | | | | | | 3,299 | | 308,300 | 308,300 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - GT6 COMBUSTION TURBINE SET WITH ACCESSORIES | | 820.00 TN | - | - | | 1,411 | 99.95 /MH | 141,065 | 141,065 |
| | | | MECHANICAL EQUIPMENT - MISC. PUMPS AND EQUIPMENT | | 8.00 TN | - | - | | 14 | 99.95 /MH | 1,376 | 1,376 |
| | | | MECHANICAL EQUIPMENT | | | | | | 1,425 | | 142,441 | 142,441 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - UNIT HSS GT6 PIPING | | 46.00 TN | - | - | 0 | 106 | 99.95 /MH | 10,551 | 10,551 |
| | | | PIPING | | | | | | 106 | | 10,551 | 10,551 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - GT6 TRANSFORMER STEEL | | 21.00 TN | - | - | 0 | 48 | 99.95 /MH | 4,767 | 4,767 |
| | | | ELECTRICAL EQUIPMENT - GT6 TRANSFORMER COPPER | | 39.00 TN | - | - | 0 | 89 | 99.95 /MH | 8,853 | 8,853 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 136 | | 13,620 | 13,620 |
| | | 11.43.00 | CABLE | | | | | | | | | |
| | | | CABLE - UNIT GT6 MISC. | | 6.00 TN | - | - | | 60 | 124.87 /MH | 7,492 | 7,492 |
| | | | CABLE | | | | | | 60 | | 7,492 | 7,492 |
| | | | DEMOLITION | | | | | | 5,026 | | 482,404 | 482,404 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - COMBUSTION TURBINE SET WITH ACCESSORIES | STEEL SALVAGE | -797.00 TN | - | (86,873) | - | | 115.91 /MH | | (86,873) |
| | | | MECHANICAL EQUIPMENT - MISC. PUMPS AND EQUIPMENT | STEEL SALVAGE | -8.00 TN | - | (872) | - | | 115.91 /MH | | (872) |
| | | | ELECTRICAL EQUIPMENT - TRANSFORMER | STEEL SALVAGE | -21.00 TN | - | (2,289) | - | | 115.91 /MH | | (2,289) |
| | | | MIXED STEEL | | | | (90,034) | | | | | (90,034) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - GT6 TRANSFORMERS | CU SALVAGE | -39.00 TN | - | (135,213) | - | | 115.91 /MH | | (135,213) |
| | | | UNIT GT6 CABLE - MISC. | CU SALVAGE | -6.00 TN | - | (20,802) | - | | 115.91 /MH | | (20,802) |
| | | | MECHANICAL EQUIPMENT - UNIT GT6 TURBINE GENERATOR | CU SALVAGE | -23.00 TN | - | (79,741) | - | | 115.91 /MH | | (79,741) |
| | | | COPPER | | | | (235,756) | | | | | (235,756) |
| | | | SCRAP VALUE | | | | (325,790) | | | | | (325,790) |
| | | | **HSSGT6 GAS UNIT 6** | | | | **(325,790)** | | **5,026** | | **482,404** | **156,614** |
| **SWYD** | | | **SWITCHYARD** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.51.00 | SUBSTATION, SWITCHYARD & TRANSMISSION LINE | | | | | | | | | |
| | | | SUBSTATION, SWITCHYARD & TRANSMISSION LINE | BASED ON EAGLE VALLEY COST. SCRAP VALUE INCLUDED IN SUBCONTRACT COST | 1.00 LS | 477,491 | - | 414,057 | 15,644 | 89.95 /MH | 1,407,200 | 2,298,748 |
| | | | SUBSTATION, SWITCHYARD & TRANSMISSION LINE | | | 477,491 | | 414,057 | 15,644 | | 1,407,200 | 2,298,748 |
| | | | DEMOLITION | | | 477,491 | | 414,057 | 15,644 | | 1,407,200 | 2,298,748 |
| | | | **SWYD SWITCHYARD** | | | **477,491** | | **414,057** | **15,644** | | **1,407,200** | **2,298,748** |

# EXHIBIT 4
# Petersburg Station
# Conceptual Demolition Cost Estimate No. 32708H

# INDIANAPOLIS POWER & LIGHT
# PETERSBURG
# DEMOLITION ESTIMATE

| | |
|---|---|
| **Estimator** | BA, |
| **Labor rate table** | 16INEVN |
| **Project No.** | 10572-097 |
| **Client** | IPL |
| **Station Name** | Petersburg |
| **Unit** | 1-4 |
| **Estimate Date** | 9/30/16 |
| **Reviewed By** | GA |
| **Approved By** | MNO |
| **Estimate No.** | 32708H |
| **Estimate Class** | Conceptual |

Estimate No.: 32708H
Project No.: 10572-097
Estimate Date: 9/30/16
Prep/Rev/App: BA, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**PETERSBURG**
**DEMOLITION ESTIMATE**

| Area | Description | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|
| ASH | ASH PONDS | 30,660,116 | | 161,650 | 107,720 | 20,313,320 | 51,135,086 |
| CH | MATERIAL HANDLING | 1,693,550 | (618,466) | 10,576,755 | 38,840 | 5,674,282 | 17,326,121 |
| COMMON | COMMON | 7,937,080 | (2,929,035) | 4,201,914 | 61,736 | 6,329,109 | 15,539,068 |
| LANDFILL | LANDFILL | 4,416,340 | | | | | 4,416,340 |
| SWYD | SWITCHYARD | 795,818 | | 717,700 | 26,074 | 2,207,404 | 3,720,922 |
| U1 | UNIT 1 DEMOLITION | | (2,758,114) | | 75,090 | 6,403,976 | 3,645,862 |
| U2 | UNIT 2 | | (3,679,681) | | 103,153 | 8,799,433 | 5,119,752 |
| U3 | UNIT 3 | | (3,574,982) | | 83,797 | 7,036,073 | 3,461,091 |
| U4 | UNIT 4 | | (3,295,833) | | 79,669 | 6,700,144 | 3,404,311 |
| | TOTAL DIRECT | 45,502,904 | (16,856,111) | 15,658,018 | 576,079 | 63,463,741 | 107,768,552 |

Estimate No.: 32708H
Project No.: 10572-097
Estimate Date: 9/30/16
Prep/Rev/App: BA, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**PETERSBURG**
**DEMOLITION ESTIMATE**

Sargent & Lundy

## Estimate Totals

| Description | Amount | Totals | Hours |
|---|---|---|---|
| **Direct Costs:** | | | |
| Labor | 63,463,741 | | 576,079 |
| Material | 15,658,018 | | |
| Subcontract | 45,502,904 | | |
| Scrap Value | (16,856,111) | | |
| | **107,768,552** | **107,768,552** | |
| **Other Direct & Construction Indirect Costs:** | | | |
| 91-1 Scaffolding | | | |
| 91-2 Cost Due To OT 5-10's | | | |
| 91-3 Cost Due To OT 6-10's | | | |
| 91-4 Per Diem | | | |
| 91-5 Consumables | 634,637 | | |
| 91-6 Freight on Material | 782,901 | | |
| 91-7 Freight on Scrap | | | |
| 91-8 Sales Tax | | | |
| 91-9 Contractors G&A | 5,637,751 | | |
| 91-10 Contractors Profit | 8,053,930 | | |
| | **15,109,219** | **122,877,771** | |
| **Indirect Costs:** | | | |
| 93-1 Engineering Services | | | |
| 93-2 CM Support | | | |
| 93-3 Start-Up/Commissioning | | | |
| 93-4 Start-Up/Spare Parts | | | |
| 93-5 Excess Liability Insur. | | | |
| 93-6 Sales Tax On Indirects | | | |
| 93-7 Owners Cost | 12,897,551 | | |
| 93-8 EPC Fee | | | |
| | **12,897,551** | **135,775,322** | |
| **Contingency:** | | | |
| 94-1 Contingency on Material | 3,847,175 | | |
| 94-2 Contingency on Labor | 14,999,021 | | |
| 94-3 Contingency on Sub. | 9,100,581 | | |
| 94-4 Contingency on Scrap | 3,371,222 | | |
| 94-5 Contingency on Indirect | 2,579,510 | | |
| | **33,897,509** | **169,672,831** | |
| **Escalation:** | | | |
| 96-1 Escalation on Material | 3,482,204 | | |
| 96-2 Escalation on Labor | 13,576,104 | | |
| 96-3 Escalation on Subcontract | 8,237,234 | | |
| 96-4 Escalation on Scrap | 2,034,269 | | |
| 96-5 Escalation on Indirects | 2,334,799 | | |
| | **29,664,610** | **199,337,441** | |
| 98 Interest During Constr | | | |
| | | **199,337,441** | |
| ***Total*** | | ***199,337,441*** | |

Estimate No..: 32708H
Project No.: 10572-097
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**INDIANAPOLIS POWER & LIGHT**
**PETERSBURG**
**DEMOLITION ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASH | | | ASH PONDS | | | | | | | | | |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.20.00 | BACKFILL | | | | | | | | | |
| | | | OFFSITE BORROW SOILS, PLACE AND COMPACT, 36 IN DEEP | SOIL COVER OVER GEOSYNTHETICS | 367,114.00 CY | 9,691,810 | - | | | /MH | | 9,691,810 |
| | | | OFFSITE BORROW SOILS, PLACE AND COMPACT, 36 IN DEEP | SOIL COVER OVER GEOSYNTHETICS | 367,114.00 CY | 9,691,810 | - | | | /MH | | 9,691,810 |
| | | | OFFSITE BORROW SOILS, PLACE AND COMPACT, 36 IN DEEP | STORM WATER DIVERSION BERMS | 9,400.00 CY | 248,160 | - | | | /MH | | 248,160 |
| | | | BACKFILL | | | 19,631,779 | | | | | | 19,631,779 |
| | | 21.41.00 | EROSION AND SEDIMENTATION CONTROL | | | | | | | | | |
| | | | RIP RAP 100 LB DUMPED | | 440.00 CY | 14,960 | - | | | /MH | | 14,960 |
| | | | EROSION AND SEDIMENTATION CONTROL | | | 14,960 | | | | | | 14,960 |
| | | 21.45.00 | GRADING | | | | | | | | | |
| | | | DOZER PUSH | REGRADE AND COMPACT EXISTING ASH | 1,080,000.00 CY | | - | | 41,580 | 192.84 /MH | 8,018,287 | 8,018,287 |
| | | | SCRAPERS | REGRADE AND COMPACT EXISTING ASH | 1,080,000.00 CY | | - | | 41,580 | 192.84 /MH | 8,018,287 | 8,018,287 |
| | | | ARTIC TRUCKS | REGRADE AND COMPACT EXISTING ASH | 540,000.00 CY | | - | | 20,790 | 192.84 /MH | 4,009,144 | 4,009,144 |
| | | | GRADING | | | | | | 103,950 | | 20,045,718 | 20,045,718 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | SEED, FERTILIZE & MULCH | | 200.00 AC | 360,000 | - | | | /MH | | 360,000 |
| | | | LANDSCAPING | | | 360,000 | | | | | | 360,000 |
| | | 21.55.00 | POND, CONTAINMENT COVER | | | | | | | | | |
| | | | GEOMEMBRANE, LLDPE 40 MIL THK | | 734,228.00 SY | 2,936,912 | - | | | 78.54 /MH | | 2,936,912 |
| | | | GEOTEXTILE, 16 OZ/SY NON WOVEN GEOTEXTILE | | 550,671.00 SY | 1,239,010 | - | | | 78.54 /MH | | 1,239,010 |
| | | | GEOCOMPOSITE DRAINAGE LAYER, 250 MIL GEONET BETWEEN 8 OZ GEOTEXTILE FABRIC | | 183,557.00 SY | 1,156,409 | - | | | 78.54 /MH | | 1,156,409 |
| | | | POND, CONTAINMENT COVER | | | 5,332,331 | | | | | | 5,332,331 |
| | | 21.57.00 | ROAD, PARKING AREA, & SURFACED AREA | | | | | | | | | |
| | | | HAUL ROAD IMPROVEMENTS | | 1.00 LS | 1,000,000 | - | | | /MH | | 1,000,000 |
| | | | ROAD, PARKING AREA, & SURFACED AREA | | | 1,000,000 | | | | | | 1,000,000 |
| | | 21.75.00 | WELL | | | | | | | | | |
| | | | GROUND WATER MONITORING WELL | ALLOWANCE | 18.00 EA | 56,160 | - | | | /MH | | 56,160 |
| | | | WELL | | | 56,160 | | | | | | 56,160 |
| | | 21.99.00 | CIVIL WORK, MISCELLANEOUS | | | | | | | | | |
| | | | DEWATERING | ASH PONDS | 1.00 LS | - | - | 52,000 | 2,200 | 64.65 /MH | 142,230 | 194,230 |
| | | | CIVIL WORK, MISCELLANEOUS | | | | | 52,000 | 2,200 | | 142,230 | 194,230 |
| | | | CIVIL WORK | | | 26,395,230 | | 52,000 | 106,150 | | 20,187,948 | 46,635,178 |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | MAT FOUNDATION LESS THAN 5FT THICK, 4500 PSI | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 444.44 CY | - | - | 53,333 | 611 | 77.90 /MH | 47,606 | 100,939 |
| | | | CONCRETE | | | | | 53,333 | 611 | | 47,606 | 100,939 |
| | | 22.17.00 | FORMWORK | | | | | | | | | |
| | | | BUILT UP INSTALL & STRIP | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 540.00 SF | - | - | 1,350 | 119 | 99.66 /MH | 11,840 | 13,190 |
| | | | FORMWORK | | | | | 1,350 | 119 | | 11,840 | 13,190 |
| | | 22.25.00 | REINFORCING | | | | | | | | | |
| | | | UNCOATED A615 GR60 | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 33.33 TN | - | - | 34,166 | 660 | 73.10 /MH | 48,246 | 82,412 |
| | | | REINFORCING | | | | | 34,166 | 660 | | 48,246 | 82,412 |
| | | | CONCRETE | | | | | 88,850 | 1,390 | | 107,691 | 196,540 |
| | 31.00.00 | | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | 31.93.00 | WATER TREATING | | | | | | | | | |
| | | | MOBILIZATION / DEMOBILIZATION | VENDOR TO UNLOAD AND SETUP ALL VENDOR SUPPLIED EQUIPMENT | 1.00 LS | 260,000 | - | - | | /MH | | 260,000 |
| | | | CLARIFICATION, ULTRA FILTRATION, DEWATERING, AND OPERATION MONTHLY RENTAL COST INCLUDES: | MONTHLY RENTAL INCLUDING STAFF | 9.00 MO | 1,872,000 | - | - | | /MH | | 1,872,000 |
| | | | EQUALIZATION / MIX TANK | INCLUDED ABOVE | LS | - | - | - | | /MH | | |

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**INDIANAPOLIS POWER & LIGHT**
**PETERSBURG**
**DEMOLITION ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 31.93.00 | WATER TREATING | | | | | | | | | |
| | | | COAGULANT FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | POLYMER FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | ACTIFLOW AQUAMOVE MOBILE CLARIFIER TRAILER | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | ORGANO-SULFIDE FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | CLARIFIED WATER MIX / FRAC TANK(S) | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | UF FEED PUMPS | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | UF FEED TRAILER | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | SLUDGE COLLECTION / THICKENER TANK | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | DEWATERING POLYMER FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | SLUDGE RECYCLE PUMPS | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | FILTER PRESS FEED PUMPS | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | FILTER PRESS | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | VEOLIA STAFF, 1 SHIFT PER DAY, WITH AUTOMATIC OPERATION | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | WATER TREATING | | | 2,132,000 | | | | | | 2,132,000 |
| | | | MECHANICAL EQUIPMENT | | | 2,132,000 | | | | | | 2,132,000 |
| | 35.00.00 | | PIPING | | | | | | | | | |
| | | 35.15.30 | HDPE, BURIED | | | | | | | | | |
| | | | 18 IN HDPE SDR-26 | DOWN DRAIN AND OUTLET PIPES | 3,120.00 LF | 156,000 | - | | | /MH | | 156,000 |
| | | | 18 IN HDPE SDR-26 | ASH POND PERIMETER PIPING | 7,540.00 LF | 377,000 | - | | | /MH | | 377,000 |
| | | | 6 IN HDPE, PERFORATED, CORRUGATED - INCLUDES GRAVEL BEDDING AND GEOTEXTILE WRAP | TOE DRAIN PIPES BETWEEN THE DOWNDRAIN PIPES. | 15,710.00 LF | 314,200 | - | | | /MH | | 314,200 |
| | | | HDPE DROP INLET STRUCTURES | | 76.00 EA | 114,000 | - | | | /MH | | 114,000 |
| | | | HDPE, BURIED | | | 961,200 | | | | | | 961,200 |
| | | 35.99.00 | MISCELLANEOUS | | | | | | | | | |
| | | | WATER TREATMENT SYSTEM INLET/OUTLET PIPING, DEWATERING PUMPS | | 1.00 LS | 20,800 | - | | | /MH | | 20,800 |
| | | | INLET WATER TO W.T. SYSTEM AND POTABLE WATER FOR POLYMER MAKEDOWN AND SAFETY SHOWER), SAFETY SHOWER, SLUDGE ROLL OFF BOXES | | 1.00 LS | 26,000 | - | | | /MH | | 26,000 |
| | | | MISCELLANEOUS | | | 46,800 | | | | | | 46,800 |
| | | | PIPING | | | 1,008,000 | | | | | | 1,008,000 |
| | 41.00.00 | | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | 41.99.00 | ELECTRICAL EQUIPMENT, MISCELLANEOUS | | | | | | | | | |
| | | | DIESEL POWERED 250KW GENERATOR | POWER SUPPLY FOR WATER TREATMENT EQUIPMENT | 180.00 DAY | 18,720 | - | | | /MH | | 18,720 |
| | | | MISC ELECTRICAL EQUIPMENT AND LABOR | ALLOWANCE | 1.00 EA | | - | 20,800 | 180 | 98.23 /MH | 17,681 | 38,481 |
| | | | ELECTRICAL EQUIPMENT, MISCELLANEOUS | | | 18,720 | | 20,800 | 180 | | 17,681 | 57,201 |
| | | | ELECTRICAL EQUIPMENT | | | 18,720 | | 20,800 | 180 | | 17,681 | 57,201 |
| | 71.00.00 | | PROJECT INDIRECT | | | | | | | | | |
| | | 71.27.00 | FREIGHT | | | | | | | | | |
| | | | FREIGHT FOR WATER TREATMENT EQUIPMENT | NOT INCLUDED IN VENDORS COST | 1.00 LS | 3,000 | - | | | /MH | | 3,000 |
| | | | FREIGHT | | | 3,000 | | | | | | 3,000 |
| | | 71.41.00 | PERMIT | | | | | | | | | |
| | | | PERMIT COST | | 1.00 LS | 156,000 | - | | | /MH | | 156,000 |
| | | | PERMIT | | | 156,000 | | | | | | 156,000 |
| | | 71.99.00 | PROJECT INDIRECT, USER DEFINED | | | | | | | | | |
| | | | MONTHLY OPERATION & MAINTENANCE COST FOR WATER TREATMENT SYSTEM | CHEMICALS, CONSUMABLE, POWER, DISSPOSAL, SPARE PARTS | 9.00 MO | 262,080 | - | | | /MH | | 262,080 |
| | | | PROJECT INDIRECT, USER DEFINED | | | 262,080 | | | | | | 262,080 |
| | | | PROJECT INDIRECT | | | 421,080 | | | | | | 421,080 |
| | 81.00.00 | | OWNER COST | | | | | | | | | |
| | | 81.99.00 | OWNER COST, MISCELLANEOUS | | | | | | | | | |
| | | | GROUND WATER SAMPLING AND ANALYSIS | FUTURE VALUE OF $14,400/YR, 30YR, @3%/YR | 1.00 LS | 685,086 | - | | | /MH | | 685,086 |
| | | | OWNER COST, MISCELLANEOUS | | | 685,086 | | | | | | 685,086 |
| | | | OWNER COST | | | 685,086 | | | | | | 685,086 |
| | | | **ASH ASH PONDS** | | | **30,660,116** | | **161,650** | **107,720** | | **20,313,320** | **51,135,086** |
| **CH** | | | **MATERIAL HANDLING** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.21.00 | CIVIL WORK | | | | | | | | | |

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**INDIANAPOLIS POWER & LIGHT**
**PETERSBURG**
**DEMOLITION ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.21.00 | CIVIL WORK | | | | | | | | | |
| | | | CIVIL WORK - REMOVE 17000 TF OF RR TRACK, 110 LB/ YD RAIL | | 17,000.00 TF | - | - | | 2,890 | 114.18 /MH | 329,980 | 329,980 |
| | | | CIVIL WORK | | | | | | 2,890 | | 329,980 | 329,980 |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - TRACK HOPPER HOUSE, 106'X26' | | 204.00 CY | - | - | | 195 | 85.71 /MH | 16,720 | 16,720 |
| | | | CONCRETE FOUNDATION - THAW SHED, 320'X24' | | 285.00 CY | - | - | | 273 | 85.71 /MH | 23,359 | 23,359 |
| | | | CONCRETE FOUNDATION - LOCOMOTIVE SHED, 90'X50' | | 334.00 CY | - | - | | 319 | 85.71 /MH | 27,375 | 27,375 |
| | | | CONCRETE FOUNDATION - A CRUSHER HOUSE, 40'X40' + 20'X25' | | 137.00 CY | - | - | | 131 | 85.71 /MH | 11,229 | 11,229 |
| | | | CONCRETE FOUNDATION - B CRUSHER HOUSE, 40'X40' | | 119.00 CY | - | - | | 114 | 85.71 /MH | 9,753 | 9,753 |
| | | | CONCRETE FOUNDATION - SURGE HOPPER, 23'X34' | | 58.00 CY | - | - | | 55 | 85.71 /MH | 4,754 | 4,754 |
| | | | CONCRETE FOUNDATION - TAKEUP HOUSE, 80'X25' | | 149.00 CY | - | - | | 142 | 85.71 /MH | 12,212 | 12,212 |
| | | | CONCRETE FOUNDATION - STACKOUT DRIVE HOUSE, 30X33' | | 74.00 CY | - | - | | 71 | 85.71 /MH | 6,065 | 6,065 |
| | | | CONCRETE | | | | | | 1,301 | | 111,466 | 111,466 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - OPEN WAREHOUSE #2, 150'X48' | | 129,600.00 CF | - | - | | 518 | 90.24 /MH | 46,780 | 46,780 |
| | | | ARCHITECTURAL - TRACK HOPPER HOUSE, 106'X26' | | 66,144.00 CF | - | - | | 265 | 90.24 /MH | 23,875 | 23,875 |
| | | | ARCHITECTURAL - THAW SHED, 320'X24' | | 138,240.00 CF | - | - | | 553 | 90.24 /MH | 49,899 | 49,899 |
| | | | ARCHITECTURAL - LOCOMOTIVE SHED, 90'X50' | | 108,000.00 CF | - | - | | 432 | 90.24 /MH | 38,984 | 38,984 |
| | | | ARCHITECTURAL - A CRUSHER HOUSE, 40'X40' + 20'X25' | | 136,000.00 CF | - | - | | 544 | 90.24 /MH | 49,091 | 49,091 |
| | | | ARCHITECTURAL - B CRUSHER HOUSE, 40'X40' | | 128,000.00 CF | - | - | | 512 | 90.24 /MH | 46,203 | 46,203 |
| | | | ARCHITECTURAL - SURGE HOPPER, 23'X34' | | 34,740.00 CF | - | - | | 139 | 90.24 /MH | 12,540 | 12,540 |
| | | | ARCHITECTURAL - TAKEUP HOUSE, 80'X25' | | 80,000.00 CF | - | - | | 320 | 90.24 /MH | 28,877 | 28,877 |
| | | | ARCHITECTURAL - STACKOUT DRIVE HOUSE, 30X33' | | 39,600.00 CF | - | - | | 158 | 90.24 /MH | 14,294 | 14,294 |
| | | | ARCHITECTURAL | | | | | | 3,441 | | 310,543 | 310,543 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - PULVERIZEED FUEL EQUIPMENT | | 2,331.00 TN | - | - | | 5,350 | 83.15 /MH | 444,823 | 444,823 |
| | | | MECHANICAL EQUIPMENT | | | | | | 5,350 | | 444,823 | 444,823 |
| | | 11.33.00 | MATERIAL HANDLING EQUIPMENT | | | | | | | | | |
| | | | MATERIAL HANDLING EQUIPMENT - CONVEYORS, INCL BENTS & EQUIPMENT | | 482.00 TN | - | - | | 1,106 | 83.15 /MH | 91,980 | 91,980 |
| | | | MATERIAL HANDLING EQUIPMENT - BUILDINGS & TOWERS | | 482.00 TN | - | - | | 1,106 | 83.15 /MH | 91,980 | 91,980 |
| | | | MATERIAL HANDLING EQUIPMENT | | | | | | 2,212 | | 183,959 | 183,959 |
| | | 11.99.00 | DEMOLITION, MISCELLANEOUS | | | | | | | | | |
| | | | DEMOLISH WATER TREATMENT CONCRETE PAD, PIPING AND ELECTRICAL FACILTIES | AFTER WATER TREATMENT IS COMPLETED | 1.00 LS | 31,200 | - | | | /MH | | 31,200 |
| | | | DEMOLITION, MISCELLANEOUS | | | 31,200 | | | | | | 31,200 |
| | | | DEMOLITION | | | 31,200 | | | 15,194 | | 1,380,771 | 1,411,971 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MIXED STEEL - PULVERIZERS | STEEL SALVAGE | -2,331.00 TN | - | (254,079) | - | | 78.26 /MH | | (254,079) |
| | | | MIXED STEEL - MATERIAL HANDLING EQUIPMENT -CONVEYORS | STEEL SALVAGE | -1,938.00 TN | - | (211,242) | - | | 78.26 /MH | | (211,242) |
| | | | MIXED STEEL - MATERIAL HANDLING EQUIPMENT - CAR DUMPER | STEEL SALVAGE | -300.00 TN | - | (32,700) | - | | 78.26 /MH | | (32,700) |
| | | | MIXED STEEL - MATERIAL HANDLING EQUIPMENT - BUILDINGS & TOWERS | STEEL SALVAGE | -482.00 TN | - | (52,538) | - | | 78.26 /MH | | (52,538) |
| | | | MIXES STEEL - REMOVE 17000 TF OF RR TRACK, 110 LB/ YD RAIL | STEEL SALVAGE | -623.00 TN | - | (67,907) | - | | 78.26 /MH | | (67,907) |
| | | | MIXED STEEL | | | | (618,466) | | | | | (618,466) |
| | | | SCRAP VALUE | | | | (618,466) | | | | | (618,466) |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.21.00 | MASS FILL | | | | | | | | | |
| | | | MASS FILL , COMMON EARTH USING DUMP TRUCK, 23.37 ACRES, 15 FEET DEEP | COAL PIT (INCLUDES CONCRETE WASTE FROM CHIMNEYS) | 634,370.00 CY | - | - | 10,467,105 | 22,203 | 188.17 /MH | 4,177,929 | 14,645,034 |
| | | | MASS FILL | | | | | 10,467,105 | 22,203 | | 4,177,929 | 14,645,034 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |

Estimate No..: 32708H
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**INDIANAPOLIS POWER & LIGHT**
**PETERSBURG**
**DEMOLITION ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | HYDRO SEED, FERTILIZE & MULCH, COAL PILE | | 23.30 AC | 41,940 | - | | | /MH | | 41,940 |
| | | | LANDSCAPING | | | 41,940 | | | | | | 41,940 |
| | | | CIVIL WORK | | | 41,940 | | 10,467,105 | 22,203 | | 4,177,929 | 14,686,974 |
| | 22.00.00 | | CONCRETE | | | | | | | | | |
| | | 22.13.00 | CONCRETE | | | | | | | | | |
| | | | MAT FOUNDATION LESS THAN 5FT THICK, 4500 PSI | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 444.44 CY | - | - | 53,333 | 556 | 77.90 /MH | 43,278 | 96,611 |
| | | | CONCRETE | | | | | 53,333 | 556 | | 43,278 | 96,611 |
| | | 22.17.00 | FORMWORK | | | | | | | | | |
| | | | BUILT UP INSTALL & STRIP | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 540.00 SF | - | - | 1,350 | 108 | 99.66 /MH | 10,763 | 12,113 |
| | | | FORMWORK | | | | | 1,350 | 108 | | 10,763 | 12,113 |
| | | 22.25.00 | REINFORCING | | | | | | | | | |
| | | | UNCOATED A615 GR60 | 80' X 100' X 1.5' THK CONCRETE SLAB FOR DEWATERING EQUIPMENT | 33.33 TN | - | - | 34,166 | 600 | 73.10 /MH | 43,860 | 78,026 |
| | | | REINFORCING | | | | | 34,166 | 600 | | 43,860 | 78,026 |
| | | | CONCRETE | | | | | 88,850 | 1,264 | | 97,901 | 186,750 |
| | 31.00.00 | | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | 31.93.00 | WATER TREATING | | | | | | | | | |
| | | | MOBILIZATION / DEMOBILIZATION | VENDOR TO UNLOAD AND SETUP ALL VENDOR SUPPLIED EQUIPMENT | 1.00 LS | 326,650 | - | - | | /MH | | 326,650 |
| | | | CLARIFICATION, ULTRA FILTRATION, DEWATERING, AND OPERATION MONTHLY RENTAL COST INCLUDES: | MONTHLY RENTAL INCLUDING STAFF | 5.00 MO | 1,040,000 | - | - | | /MH | | 1,040,000 |
| | | | EQUALIZATION / MIX TANK | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | COAGULANT FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | POLYMER FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | ACTIFLOW AQUAMOVE MOBILE CLARIFIER TRAILER | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | ORGANO-SULFIDE FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | CLARIFIED WATER MIX / FRAC TANK(S) | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | UF FEED PUMPS | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | UF FEED TRAILER | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | SLUDGE COLLECTION / THICKENER TANK | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | DEWATERING POLYMER FEED SYSTEM | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | SLUDGE RECYCLE PUMPS | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | FILTER PRESS FEED PUMPS | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | FILTER PRESS | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | VEOLIA STAFF, 1 SHIFT PER DAY, WITH AUTOMATIC OPERATION | INCLUDED ABOVE | LS | - | - | - | | /MH | | |
| | | | WATER TREATING | | | 1,366,650 | | | | | | 1,366,650 |
| | | | MECHANICAL EQUIPMENT | | | 1,366,650 | | | | | | 1,366,650 |
| | 35.00.00 | | PIPING | | | | | | | | | |
| | | 35.99.00 | MISCELLANEOUS | | | | | | | | | |
| | | | WATER TREATMENT SYSTEM INLET/OUTLET PIPING, DEWATERING PUMPS | | 1.00 LS | 20,800 | - | | | /MH | | 20,800 |
| | | | INLET WATER TO W.T. SYSTEM AND POTABLE WATER FOR POLYMER MAKEDOWN AND SAFETY SHOWER), SAFETY SHOWER, SLUDGE ROLL OFF BOXES | | 1.00 LS | 26,000 | - | | | /MH | | 26,000 |
| | | | MISCELLANEOUS | | | 46,800 | | | | | | 46,800 |
| | | | PIPING | | | 46,800 | | | | | | 46,800 |
| | 41.00.00 | | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | 41.99.00 | ELECTRICAL EQUIPMENT, MISCELLANEOUS | | | | | | | | | |
| | | | DIESEL POWERED 250KW GENERATOR | POWER SUPPLY FOR WATER TREATMENT EQUIPMENT | 60.00 DAY | 6,240 | - | | | /MH | | 6,240 |
| | | | MISC ELECTRICAL EQUIPMENT AND LABOR | ALLOWANCE | 1.00 EA | | - | 20,800 | 180 | 98.23 /MH | 17,681 | 38,481 |
| | | | ELECTRICAL EQUIPMENT, MISCELLANEOUS | | | 6,240 | | 20,800 | 180 | | 17,681 | 44,721 |
| | | | ELECTRICAL EQUIPMENT | | | 6,240 | | 20,800 | 180 | | 17,681 | 44,721 |
| | 71.00.00 | | PROJECT INDIRECT | | | | | | | | | |
| | | 71.27.00 | FREIGHT | | | | | | | | | |
| | | | FREIGHT FOR WATER TREATMENT EQUIPMENT | NOT INCLUDED IN VENDORS COST | 1.00 LS | 3,120 | - | | | /MH | | 3,120 |
| | | | FREIGHT | | | 3,120 | | | | | | 3,120 |
| | | 71.41.00 | PERMIT | | | | | | | | | |

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**DEMOLITION ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 71.41.00 | PERMIT | | | | | | | | | |
| | | | PERMIT COST | | 1.00 LS | 52,000 | - | | | /MH | | 52,000 |
| | | | PERMIT | | | 52,000 | | | | | | 52,000 |
| | | 71.99.00 | PROJECT INDIRECT, USER DEFINED | | | | | | | | | |
| | | | MONTHLY OPERATION & MAINTENANCE COST FOR WATER TREATMENT SYSTEM | CHEMICALS, CONSUMABLE, POWER, DISSPOSAL, SPARE PARTS | 5.00 MO | 145,600 | - | | | /MH | | 145,600 |
| | | | PROJECT INDIRECT, USER DEFINED | | | 145,600 | | | | | | 145,600 |
| | | | PROJECT INDIRECT | | | 200,720 | | | | | | 200,720 |
| | | | **CH MATERIAL HANDLING** | | | **1,693,550** | **(618,466)** | **10,576,755** | **38,840** | | **5,674,282** | **17,326,121** |
| **COMMON** | | | **COMMON** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.21.00 | CIVIL WORK | | | | | | | | | |
| | | | CIVIL WORK - PAVEMENT & ROADWAY ASPHALT REMOVAL | | 3,167.00 SY | - | - | | 317 | 114.18 /MH | 36,161 | 36,161 |
| | | | CIVIL WORK - PLUG CIRC WATER PIPE WITH SLURRY AND CAP BOTH ENDS WITH CONCRETE | | 1.00 LT | - | - | 83,200 | 600 | 114.18 /MH | 68,508 | 151,708 |
| | | | CIVIL WORK | | | | | 83,200 | 917 | | 104,669 | 187,869 |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - COMMUNICATIONS BUILDING, 130'X80' | | 385.00 CY | - | - | | 368 | 85.71 /MH | 31,555 | 31,555 |
| | | | CONCRETE FOUNDATION - GUARD HSE #2, 64'X23' | | 57.00 CY | - | - | | 55 | 85.71 /MH | 4,672 | 4,672 |
| | | | CONCRETE FOUNDATION - WAREHOUSE #1, 200' X 80' | | 593.00 CY | - | - | | 567 | 85.71 /MH | 48,602 | 48,602 |
| | | | CONCRETE FOUNDATION - WAREHOUSE #2, 154'X100' | | 571.00 CY | - | - | | 546 | 85.71 /MH | 46,799 | 46,799 |
| | | | CONCRETE FOUNDATION - OPEN WAREHOUSE #1, 80'X38' | | 113.00 CY | - | - | | 108 | 85.71 /MH | 9,262 | 9,262 |
| | | | CONCRETE FOUNDATION - OPEN WAREHOUSE #2, 150'X48' | | 267.00 CY | - | - | | 255 | 85.71 /MH | 21,883 | 21,883 |
| | | | CONCRETE FOUNDATION - SCRUBBER MAINTENANCE BREAK AREA, 100'X38' | | 141.00 CY | - | - | | 135 | 85.71 /MH | 11,556 | 11,556 |
| | | | CONCRETE FOUNDATION - SEAL WATER TREATMENT BLDG, 100'X46' | | 171.00 CY | - | - | | 164 | 85.71 /MH | 14,015 | 14,015 |
| | | | CONCRETE FOUNDATION - WAREHOUSE #3, 100'X48' | | 178.00 CY | - | - | | 170 | 85.71 /MH | 14,589 | 14,589 |
| | | | CONCRETE FOUNDATION - WAREHOUSE #4, 175'X128' | | 829.00 CY | - | - | | 793 | 85.71 /MH | 67,945 | 67,945 |
| | | | CONCRETE FOUNDATION - REBUILD SHOP, 100' X48' | | 178.00 CY | - | - | | 170 | 85.71 /MH | 14,589 | 14,589 |
| | | | CONCRETE FOUNDATION - WAREHOUSE #5 (QUONSET HUT), 96'X50' | | 178.00 CY | - | - | | 170 | 85.71 /MH | 14,589 | 14,589 |
| | | | CONCRETE FOUNDATION - VEHICLE MAINTENANCE, 75'X40' | | 112.00 CY | - | - | | 107 | 85.71 /MH | 9,180 | 9,180 |
| | | | CONCRETE FOUNDATION - SERVICE BLDG, 200'X100' | | 1,852.00 CY | - | - | | 1,771 | 85.71 /MH | 151,790 | 151,790 |
| | | | CONCRETE FOUNDATION - GYPSUM DEWATERING BLDG, 50'x34, 118'x70, 84'x24', 70'x43'' | | 1,110.00 CY | - | - | | 1,061 | 85.71 /MH | 90,976 | 90,976 |
| | | | CONCRETE FOUNDATION - GYPSUM STORAGE BLDG, 335'X150' | | 2,792.00 CY | - | - | | 2,670 | 85.71 /MH | 228,833 | 228,833 |
| | | | CONCRETE FOUNDATION - UNIT 1 & 2 INTAKE STRUCTURE | | 2,000.00 CY | - | - | | 1,913 | 85.71 /MH | 163,920 | 163,920 |
| | | | CONCRETE FOUNDATION - UNIT 2 , 3 & 4 COOLING TOWER INTAKE STRUCTURE | | 1,333.00 CY | - | - | | 1,275 | 85.71 /MH | 109,253 | 109,253 |
| | | | CONCRETE FOUNDATION - 3 WATER TANKS (MATS) | | 361.00 CY | - | - | | 345 | 85.71 /MH | 29,588 | 29,588 |
| | | | CONCRETE FOUNDATION - SBS BUILDING, TANKS, AND EQUIPMENT (MATS) | | 1,117.00 CY | - | - | | 1,068 | 85.71 /MH | 91,550 | 91,550 |
| | | | CONCRETE FOUNDATION - MISC. FOUNDATIONS (MATS) | | 327.00 CY | - | - | | 313 | 85.71 /MH | 26,801 | 26,801 |
| | | | CONCRETE FOUNDATION - ADDITIONAL FGD STORAGE BUILDING (INCLUDES CONCRETE WALLS) | | 1,188.00 CY | - | - | | 1,136 | 85.71 /MH | 97,369 | 97,369 |
| | | | CONCRETE | | | | | | 15,159 | | 1,299,315 | 1,299,315 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - SERVICE BLDG | | 688.00 TN | - | - | | 594 | 78.26 /MH | 46,499 | 46,499 |
| | | | STEEL | | | | | | 594 | | 46,499 | 46,499 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - COMMUNICATIONS BUILDING, 130'X80' | | 249,600.00 CF | - | - | | 998 | 90.24 /MH | 90,096 | 90,096 |
| | | | ARCHITECTURAL - GUARD HSE #2, 64'X23' | | 20,608.00 CF | - | - | | 82 | 90.24 /MH | 7,439 | 7,439 |
| | | | ARCHITECTURAL - WAREHOUSE #1, 200' X 80' | | 288,000.00 CF | - | - | | 1,152 | 90.24 /MH | 103,956 | 103,956 |
| | | | ARCHITECTURAL - WAREHOUSE #2, 154'X100' | | 277,200.00 CF | - | - | | 1,109 | 90.24 /MH | 100,058 | 100,058 |
| | | | ARCHITECTURAL - OPEN WAREHOUSE #1, 80'X38' | | 54,720.00 CF | - | - | | 219 | 90.24 /MH | 19,752 | 19,752 |
| | | | ARCHITECTURAL - SCRUBBER MAINTENANCE BREAK AREA, 100'X38' | | 60,800.00 CF | - | - | | 243 | 90.24 /MH | 21,946 | 21,946 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - SEAL WATER TREATMENT BLDG, 100'X46' | | 73,600.00 CF | - | - | | 294 | 90.24 /MH | 26,567 | 26,567 |
| | | | ARCHITECTURAL - WAREHOUSE #3, 100'X48' | | 76,800.00 CF | - | - | | 307 | 90.24 /MH | 27,722 | 27,722 |
| | | | ARCHITECTURAL - WAREHOUSE #4, 175'X128' | | 403,200.00 CF | - | - | | 1,613 | 90.24 /MH | 145,539 | 145,539 |
| | | | ARCHITECTURAL - REBUILD SHOP, 100' X48' | | 86,400.00 CF | - | - | | 346 | 90.24 /MH | 31,187 | 31,187 |
| | | | ARCHITECTURAL - WAREHOUSE #5 (QUONSET HUT), 96'X50' | | 86,400.00 CF | - | - | | 346 | 90.24 /MH | 31,187 | 31,187 |
| | | | ARCHITECTURAL- VEHICLE MAINTENANCE, 75'X40' | | 54,000.00 CF | - | - | | 216 | 90.24 /MH | 19,492 | 19,492 |
| | | | ARCHITECTURAL - SERVICE BLDG EXTERIOR SIDING | | 25,200.00 SF | - | - | | 129 | 90.24 /MH | 11,598 | 11,598 |
| | | | ARCHITECTURAL - SERVICE BLDG MASONRY WALLS | | 7,800.00 SF | - | - | | 73 | 90.24 /MH | 6,581 | 6,581 |
| | | | ARCHITECTURAL - SERVICE BLDG ROOF | | 25,000.00 SF | - | - | | 319 | 99.09 /MH | 31,585 | 31,585 |
| | | | ARCHITECTURAL - GYPSUM DEWATERING BLDG, 50'x34, 118'x70, 84'x24', 70'x43" | | 279,616.00 CF | - | - | | 1,118 | 90.24 /MH | 100,930 | 100,930 |
| | | | ARCHITECTURAL - GYPSUM STORAGE BLDG, 335'X150' | | 4,020,000.00 CF | - | - | | 16,080 | 90.24 /MH | 1,451,059 | 1,451,059 |
| | | | ARCHITECTURAL - UNIT 2 , 3 & 4 COOLING TOWER INTAKE STRUCTURE | | 48,000.00 CF | - | - | | 192 | 90.24 /MH | 17,326 | 17,326 |
| | | | ARCHITECTURAL - NEW FGD STORAGE BUILDING (170'X100'X48') | | 816,000.00 CF | - | - | | 3,264 | 90.24 /MH | 294,543 | 294,543 |
| | | | ARCHITECTURAL - NEW SBS BUILDING (120'X60'X20') | | 144,000.00 CF | - | - | | 576 | 90.24 /MH | 51,978 | 51,978 |
| | | | **ARCHITECTURAL** | | | | | | **28,676** | | **2,590,541** | **2,590,541** |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - 30,000 GALLON WATER TOWER | | 17.30 TN | - | - | | 30 | 83.15 /MH | 2,476 | 2,476 |
| | | | MECHANICAL EQUIPMENT - DEMIN WATER TANK #1, 303,000 GALLON 40' DIA | | 31.50 TN | - | - | | 54 | 83.15 /MH | 4,508 | 4,508 |
| | | | MECHANICAL EQUIPMENT - DEMIN WATER TANK #2, 300,000 GALLON 40' DIA | | 31.00 TN | - | - | | 53 | 83.15 /MH | 4,437 | 4,437 |
| | | | MECHANICAL EQUIPMENT - DEMIN WATER TANK #3, 300,000 GALLON 40' DIA | | 31.00 TN | - | - | | 53 | 83.15 /MH | 4,437 | 4,437 |
| | | | MECHANICAL EQUIPMENT - DEMIN WATER TANK #4, 300,000 GALLON 40' DIA | | 31.00 TN | - | - | | 53 | 83.15 /MH | 4,437 | 4,437 |
| | | | MECHANICAL EQUIPMENT - SERVICE WATER TANK #2 . 200,000 GALLONS 33' DIA X 33'4" TALL | | 23.00 TN | - | - | | 40 | 83.15 /MH | 3,292 | 3,292 |
| | | | MECHANICAL EQUIPMENT - SERVICE WATER TANK #1 . 303,000 GALLONS 340' DIA X 36'6" TALL | | 31.50 TN | - | - | | 54 | 83.15 /MH | 4,508 | 4,508 |
| | | | MECHANICAL EQUIPMENT - SEAL WATER TANK, 300,000 GALLONS, 40' DIA X 36'6" HIGH | | 31.00 TN | - | - | | 53 | 83.15 /MH | 4,437 | 4,437 |
| | | | MECHANICAL EQUIPMENT - ASH SLUICE WATER HOLDING TANK, 100,000 GALLONS, 28' DIA ELEVATED | | 44.00 TN | - | - | | 76 | 83.15 /MH | 6,297 | 6,297 |
| | | | MECHANICAL EQUIPMENT - #1 IGNITER OIL TANK, 7143 BBLS, 36' DIA X 44'6" | | 26.00 TN | - | - | | 45 | 83.15 /MH | 3,721 | 3,721 |
| | | | MECHANICAL EQUIPMENT - #2 IGNITER OIL TANK, 4929 BBLS, 30' DIA X 43'3" HIGH | | 22.00 TN | - | - | | 38 | 83.15 /MH | 3,149 | 3,149 |
| | | | MECHANICAL EQUIPMENT - MISC POWER PLANT EQUIPMENT | | 763.00 TN | - | - | | 1,313 | 83.15 /MH | 109,202 | 109,202 |
| | | | MECHANICAL EQUIPMENT - WATER SUPPLY & PURIFICATION EQUIPMENT | | 760.00 TN | - | - | | 1,744 | 83.15 /MH | 145,030 | 145,030 |
| | | | MECHANICAL EQUIPMENT - 2.7 MW DIESEL GENERATOR #1 | | 56.00 TN | - | - | | 129 | 83.15 /MH | 10,686 | 10,686 |
| | | | MECHANICAL EQUIPMENT - 2.7 MW DIESEL GENERATOR #2 | | 56.00 TN | - | - | | 129 | 83.15 /MH | 10,686 | 10,686 |
| | | | MECHANICAL EQUIPMENT - 2.7 MW DIESEL GENERATOR #3 | | 56.00 TN | - | - | | 129 | 83.15 /MH | 10,686 | 10,686 |
| | | | MECHANICAL EQUIPMENT - SBS REAGENT TANK (MATS) | | 43.00 TN | - | - | | 99 | 83.15 /MH | 8,206 | 8,206 |
| | | | MECHANICAL EQUIPMENT - SBS DILUTION TANK (MATS) | | 10.00 TN | - | - | | 23 | 83.15 /MH | 1,908 | 1,908 |
| | | | MECHANICAL EQUIPMENT - SBS COMPRESSORS (MATS) | | 66.00 TN | - | - | | 151 | 83.15 /MH | 12,595 | 12,595 |
| | | | MECHANICAL EQUIPMENT - SBS MISC. EQUIPMENT (MATS) | ALLOWANCE | 50.00 TN | - | - | | 115 | 83.15 /MH | 9,541 | 9,541 |
| | | | MECHANICAL EQUIPMENT - NEW PDC'S (MATS) | ALLOWANCE | 20.00 TN | - | - | | 46 | 83.15 /MH | 3,817 | 3,817 |
| | | | **MECHANICAL EQUIPMENT** | | | | | | **4,426** | | **368,057** | **368,057** |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - MISC PIPING & HANGERS | | 1,200.00 TN | - | - | | 2,754 | 83.15 /MH | 228,995 | 228,995 |
| | | | PIPING - REMOVE FIRE HYDRANTS ABANDON BURIED PIPING IIJ PLACE | | 1.00 LS | - | - | | 250 | 114.18 /MH | 28,545 | 28,545 |
| | | | PIPING - NEW PIPING (MATS) | | 97.00 TN | - | - | | 223 | 83.15 /MH | 18,510 | 18,510 |
| | | | **PIPING** | | | | | | **3,227** | | **276,051** | **276,051** |
| | | 11.99.00 | DEMOLITION, MISCELLANEOUS | | | | | | | | | |
| | | | DEMOLITION - ASBESTOS REMOVAL/DISPOSAL SUBCONTRACTED | | 1.00 LS | 6,295,120 | - | | | /MH | | 6,295,120 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEMOLITION, MISCELLANEOUS | | | 6,295,120 | | | | | | 6,295,120 |
| | | | DEMOLITION | | | 6,295,120 | | 83,200 | 52,999 | | 4,685,131 | 11,063,451 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | STEEL SALVAGE- SERVICE BLDG | STEEL SALVAGE | -688.00 TN | - | (74,992) | - | | 78.26 /MH | | (74,992) |
| | | | MIXED STEEL - 30,000 GALLON WATER TOWER | STEEL SALVAGE | -17.30 TN | - | (1,886) | - | | 78.26 /MH | | (1,886) |
| | | | MIXED STEEL - DEMIN WATER TANK #1, 303,000 GALLON 40' DIA | STEEL SALVAGE | -31.50 TN | - | (3,433) | - | | 78.26 /MH | | (3,433) |
| | | | MIXED STEEL - DEMIN WATER TANK #2, 300,000 GALLON 40' DIA | STEEL SALVAGE | -31.00 TN | - | (3,379) | - | | 78.26 /MH | | (3,379) |
| | | | MIXED STEEL - DEMIN WATER TANK #3, 300,000 GALLON 40' DIA | STEEL SALVAGE | -31.00 TN | - | (3,379) | - | | 78.26 /MH | | (3,379) |
| | | | MIXED STEEL - DEMIN WATER TANK #4, 300,000 GALLON 40' DIA | STEEL SALVAGE | -31.00 TN | - | (3,379) | - | | 78.26 /MH | | (3,379) |
| | | | MIXED STEEL - SERVICE WATER TANK #2 . 200,000 GALLONS 33' DIA X 33'4" TALL | STEEL SALVAGE | -23.00 TN | - | (2,507) | - | | 78.26 /MH | | (2,507) |
| | | | MIXED STEEL - SERVICE WATER TANK #1 . 303,000 GALLONS 340' DIA X 36'6" TALL | STEEL SALVAGE | -31.50 TN | - | (3,433) | - | | 78.26 /MH | | (3,433) |
| | | | MIXED STEEL - SEAL WATER TANK, 300,000 GALLONS, 40' DIA X 36'6" HIGH | STEEL SALVAGE | -31.00 TN | - | (3,379) | - | | 78.26 /MH | | (3,379) |
| | | | MIXED STEEL - ASH SLUICE WATER HOLDING TANK, 100,000 GALLONS, 28' DIA ELEVATED | STEEL SALVAGE | -44.00 TN | - | (4,796) | - | | 78.26 /MH | | (4,796) |
| | | | MIXED STEEL - #1 IGNITER OIL TANK, 7143 BBLS, 36' DIA X 44'6" | STEEL SALVAGE | -26.00 TN | - | (2,834) | - | | 78.26 /MH | | (2,834) |
| | | | MIXED STEEL- #2 IGNITER OIL TANK, 4929 BBLS, 30' DIA X 43'3" HIGH | STEEL SALVAGE | -22.00 TN | - | (2,398) | - | | 78.26 /MH | | (2,398) |
| | | | MIXED STEEL- MISC POWER PLANT EQUIPMENT | STEEL SALVAGE | -763.00 TN | - | (83,167) | - | | 78.26 /MH | | (83,167) |
| | | | MIXED STEEL - WATER TREATMENT DEMINERALIZATION & CHEMICAL TREATMENT EQUIPMENT | STEEL SALVAGE | -760.00 TN | - | (82,840) | - | | 78.26 /MH | | (82,840) |
| | | | MIXED STEEL - 2.7 MW DIESEL GENERATOR #1 | STEEL SALVAGE | -56.00 TN | - | (6,104) | - | | 78.26 /MH | | (6,104) |
| | | | MIXED STEEL - 2.7 MW DIESEL GENERATOR #2 | STEEL SALVAGE | -56.00 TN | - | (6,104) | - | | 78.26 /MH | | (6,104) |
| | | | MIXED STEEL - 2.7 MW DIESEL GENERATOR #3 | STEEL SALVAGE | -56.00 TN | - | (6,104) | - | | 78.26 /MH | | (6,104) |
| | | | MIXED STEEL | | | | (294,115) | | | | | (294,115) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | COPPER, UNITS 3 & 4 AND COMMON | | -760.00 TN | - | (2,634,920) | - | | 78.26 /MH | | (2,634,920) |
| | | | COPPER | | | | (2,634,920) | | | | | (2,634,920) |
| | | | SCRAP VALUE | | | | (2,929,035) | | | | | (2,929,035) |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.21.00 | MASS FILL | | | | | | | | | |
| | | | MASS FILL, COMMON EARTH USING DUMP TRUCK, 77 ACRES, 2 FEET DEEP | PLANT & WASTE TREATMENT | 249,619.00 CY | - | - | 4,118,714 | 8,737 | 188.17 /MH | 1,643,978 | 5,762,692 |
| | | | MASS FILL | | | | | 4,118,714 | 8,737 | | 1,643,978 | 5,762,692 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | HYDRO SEED, FERTILIZE & MULCH, PLANT & WASTE AREAS | | 77.00 AC | 138,600 | - | | | /MH | | 138,600 |
| | | | LANDSCAPING | | | 138,600 | | | | | | 138,600 |
| | | | CIVIL WORK | | | 138,600 | | 4,118,714 | 8,737 | | 1,643,978 | 5,901,292 |
| | 81.00.00 | | OWNER COST | | | | | | | | | |
| | | 81.99.00 | OWNER COST, MISCELLANEOUS | | | | | | | | | |
| | | | IPL STAFF - SAFETY, 1 PERSON | $120/HR FOR 24 MONTHS | 1.00 LS | 501,120 | - | | | /MH | | 501,120 |
| | | | IPL STAFF - MANAGER, 1 PERSON | $120/HR FOR 24 MONTHS | 1.00 LS | 501,120 | - | | | /MH | | 501,120 |
| | | | IPL STAFF - PROJECT ENGINEER, 1 PERSON | $120/HR FOR 24 MONTHS | 1.00 LS | 501,120 | - | | | /MH | | 501,120 |
| | | | OWNER COST, MISCELLANEOUS | | | 1,503,360 | | | | | | 1,503,360 |
| | | | OWNER COST | | | 1,503,360 | | | | | | 1,503,360 |
| | | | COMMON COMMON | | | 7,937,080 | (2,929,035) | 4,201,914 | 61,736 | | 6,329,109 | 15,539,068 |
| LANDFILL | | | LANDFILL | | | | | | | | | |
| | 21.00.00 | | CIVIL WORK | | | | | | | | | |
| | | 21.20.00 | BACKFILL | | | | | | | | | |
| | | | CLAY LAYER, PLACE AND COMPACT, 30 IN DEEP | | 171,000.00 CY | 3,420,000 | - | | | /MH | | 3,420,000 |
| | | | TOPSOIL LAYER, PLACE AND COMPACT, 6 IN DEEP | | 35,000.00 CY | 770,000 | - | | | /MH | | 770,000 |
| | | | BACKFILL | | | 4,190,000 | | | | | | 4,190,000 |
| | | 21.41.00 | EROSION AND SEDIMENTATION CONTROL | | | | | | | | | |
| | | | RIP RAP 100 LB DUMPED | | 4,100.00 CY | 139,400 | - | | | /MH | | 139,400 |

Estimate No..: 32708H
Project No.: 10572-097
Estimate Date: 9/30/16
Prep/Rev/App: BA, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**PETERSBURG**
**DEMOLITION ESTIMATE**

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | EROSION AND SEDIMENTATION CONTROL | | | 139,400 | | | | | | 139,400 |
| | | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | | SEED, FERTILIZE & MULCH | | 40.00 AC | 72,000 | - | | | /MH | | 72,000 |
| | | | LANDSCAPING | | | 72,000 | | | | | | 72,000 |
| | | 21.55.00 | POND, CONTAINMENT COVER | | | | | | | | | |
| | | | GEOTEXTILE, 10 OZ/SY | | 8,300.00 SY | 14,940 | - | | | 78.54 /MH | | 14,940 |
| | | | POND, CONTAINMENT COVER | | | 14,940 | | | | | | 14,940 |
| | | | CIVIL WORK | | | 4,416,340 | | | | | | 4,416,340 |
| | | | LANDFILL LANDFILL | | | 4,416,340 | | | | | | 4,416,340 |
| SWYD | | | SWITCHYARD | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.51.00 | SUBSTATION, SWITCHYARD & TRANSMISSION LINE | | | | | | | | | |
| | | | SUBSTATION, SWITCHYARD & TRANSMISSION LINE | BASED ON EAGLE VALLEY COST. SCRAP VALUE INCLUDED IN SUBCONTRACT COST. ASSUMPTION IS THAT THERE IS NO PCB'S IN TRANSFORMERS. | 1.00 LS | 795,818 | - | 717,700 | 26,074 | 84.66 /MH | 2,207,404 | 3,720,922 |
| | | | SUBSTATION, SWITCHYARD & TRANSMISSION LINE | | | 795,818 | | 717,700 | 26,074 | | 2,207,404 | 3,720,922 |
| | | | DEMOLITION | | | 795,818 | | 717,700 | 26,074 | | 2,207,404 | 3,720,922 |
| | | | SWYD SWITCHYARD | | | 795,818 | | 717,700 | 26,074 | | 2,207,404 | 3,720,922 |
| U1 | | | UNIT 1 DEMOLITION | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - UNIT 1 TURBINE BLDG, 120'X104' | | 925.00 CY | - | - | | 665 | 85.71 /MH | 57,012 | 57,012 |
| | | | CONCRETE FOUNDATION - UNIT 1 BOILER BLDG, '111'X100'+86'X100' | | 1,104.00 CY | - | - | | 794 | 85.71 /MH | 68,044 | 68,044 |
| | | | CONCRETE FOUNDATION - UNIT 1 SO2 SLURRY THICKENER TANK, CONCRETE | | 1,185.00 CY | - | - | | 852 | 85.71 /MH | 73,036 | 73,036 |
| | | | CONCRETE FOUNDATION - UNIT 1 & 2 LIMESTONE PREP BLDG | | 1,319.00 CY | - | - | | 948 | 85.71 /MH | 81,295 | 81,295 |
| | | | CONCRETE FOUNDATION - UNIT 1 DRAFT EQUIPMENT FOUNDATIONS | | 6,900.00 CY | - | - | | 8,446 | 85.71 /MH | 723,872 | 723,872 |
| | | | CONCRETE FOUNDATION - UNIT 1 TURBINE PEDESTAL | | 1,157.00 CY | - | - | | 2,360 | 85.71 /MH | 202,300 | 202,300 |
| | | | CONCRETE FOUNDATION - UNIT 1 SCR FOUNDATIONS | | 298.00 CY | - | - | | 285 | 85.71 /MH | 24,424 | 24,424 |
| | | | CONCRETE FOUNDATION - UNIT 1 MISC FCR FOUNDATIONS | | 200.00 CY | - | - | | 191 | 85.71 /MH | 16,392 | 16,392 |
| | | | CONCRETE FOUNDATION - UNIT 1 ACI SILO FOUNDATION (MATS) | | 120.00 CY | - | - | | 115 | 85.71 /MH | 9,835 | 9,835 |
| | | | CONCRETE - U1 TRANSFORMER FDN FIREWALL CURBS, PIERS AND BASINS | | 230.00 CY | - | - | | 220 | 85.71 /MH | 18,851 | 18,851 |
| | | | CONCRETE - U1 POWER BLOCK ELEVATED SLABS | | 1,334.00 CY | - | - | | 679 | 85.71 /MH | 58,215 | 58,215 |
| | | | CONCRETE | | | | | | 15,556 | | 1,333,276 | 1,333,276 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - U1 TURBINE BLDG | | 497.00 TN | - | - | | 429 | 78.26 /MH | 33,590 | 33,590 |
| | | | STRUCTURAL STEEL - U1 BOILER BLDG | | 1,130.00 TN | - | - | | 976 | 78.26 /MH | 76,371 | 76,371 |
| | | | STRUCTURAL STEEL - U1 SCR SUPPORT STEEEL | | 2,408.00 TN | - | - | | 2,080 | 78.26 /MH | 162,745 | 162,745 |
| | | | STRUCTURAL STEEL - UNIT 1 & 2 LIMESTONE PREP BLDG | | 564.00 TN | - | - | | 487 | 78.26 /MH | 38,118 | 38,118 |
| | | | STEEL | | | | | | 3,972 | | 310,825 | 310,825 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - U1 POWER BLOCK EXTERIOR SIDING | | 47,034.00 SF | - | - | | 240 | 90.24 /MH | 21,646 | 21,646 |
| | | | ARCHITECTURAL - U1 POWER BLOCK MASONRY WALLS | | 6,890.00 SF | - | - | | 64 | 90.24 /MH | 5,813 | 5,813 |
| | | | ARCHITECTURAL - U1 POWER BLOCK ROOF | | 16,867.00 SF | - | - | | 215 | 99.09 /MH | 21,310 | 21,310 |
| | | | ARCHITECTURAL - UNIT 1 & 2 LIMESTONE PREP BLDG EXTERIOR SIDING | | 300,260.00 SF | - | - | | 1,201 | 90.24 /MH | 108,382 | 108,382 |
| | | | ARCHITECTURAL - UNIT 1 & 2 LIMESTONE PREP BLDG ROOF | | 17,800.00 SF | - | - | | 71 | 99.09 /MH | 7,055 | 7,055 |
| | | | ARCHITECTURAL | | | | | | 1,792 | | 164,206 | 164,206 |
| | | 11.25.00 | CONCRETE CHIMNEY & STACK | | | | | | | | | |
| | | | DEMOLITION, CONCRETE CHIMNEY 25' DIA X 553' HIGH | TOP DOWN DEMOLITION | 2,918.00 CY | - | - | | 7,295 | 85.71 /MH | 625,254 | 625,254 |

Estimate No..: 32708H
Project No.: 10572-097
Estimate Date: 9/30/16
Prep/Rev/App: BA, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**PETERSBURG**
**DEMOLITION ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **CONCRETE CHIMNEY & STACK** | | | | | | **7,295** | | **625,254** | **625,254** |
| | | **11.31.00** | **MECHANICAL EQUIPMENT** | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - U1 BOILER AND APPURTENANCES | | 6,900.00 TN | - | - | | 15,836 | 87.21 /MH | 1,380,935 | 1,380,935 |
| | | | MECHANICAL EQUIPMENT - U1 FLUES & DUCTS INCL BREECHING & STEEL SUPPORT | | 1,300.00 TN | - | - | | 2,953 | 83.15 /MH | 245,505 | 245,505 |
| | | | MECHANICAL EQUIPMENT - U1 PRECIPITATOR | | 3,900.00 TN | - | - | | 8,951 | 83.15 /MH | 744,234 | 744,234 |
| | | | MECHANICAL EQUIPMENT - U1 FEEDWATER DEAERATING EQUIPMENT | | 115.00 TN | - | - | | 264 | 83.15 /MH | 21,945 | 21,945 |
| | | | MECHANICAL EQUIPMENT - U1 ASH HANDLING EQUIPMENT | | 77.00 TN | - | - | | 175 | 83.15 /MH | 14,541 | 14,541 |
| | | | MECHANICAL EQUIPMENT - U1 TURBINE GENERATOR & ACCESSORIES | | 792.00 TN | - | - | | 1,818 | 83.15 /MH | 151,137 | 151,137 |
| | | | MECHANICAL EQUIPMENT - U1 CONDENSER | | 311.00 TN | - | - | | 714 | 83.15 /MH | 59,348 | 59,348 |
| | | | MECHANICAL EQUIPMENT - U1 CIRC WATER SYSTEM, EQUIPMENT - PUMPS MTRS SWITCHGEAR, TRAVELING SCREENS | | 819.00 TN | - | - | | 1,880 | 83.15 /MH | 156,289 | 156,289 |
| | | | MECHANICAL EQUIPMENT - U1 FGD EQUIPMENT | | 156.00 TN | - | - | | 269 | 83.15 /MH | 22,327 | 22,327 |
| | | | MECHANICAL EQUIPMENT - U1 FGD TANKS | | 231.00 TN | - | - | | 398 | 83.15 /MH | 33,061 | 33,061 |
| | | | MECHANICAL EQUIPMENT - U1 FGD SCRUBBER VESSELS | | 321.00 TN | - | - | | 553 | 83.15 /MH | 45,942 | 45,942 |
| | | | MECHANICAL EQUIPMENT - U1 FGD DUCTWORK | | 194.00 TN | - | - | | 334 | 83.15 /MH | 27,766 | 27,766 |
| | | | MECHANICAL EQUIPMENT - U1 FGD PIPING | | 126.00 TN | - | - | | 217 | 83.15 /MH | 18,033 | 18,033 |
| | | | MECHANICAL EQUIPMENT - U1 SCR DUCTWORK | | 1,252.00 TN | - | - | | 3,792 | 83.15 /MH | 315,284 | 315,284 |
| | | | MECHANICAL EQUIPMENT - U1 SCR EQUIPMENT | | 250.00 TN | - | - | | 757 | 83.15 /MH | 62,956 | 62,956 |
| | | | MECHANICAL EQUIPMENT - U1 SCR | | 124.00 TN | - | - | | 285 | 83.15 /MH | 23,663 | 23,663 |
| | | | **MECHANICAL EQUIPMENT** | | | | | | **39,191** | | **3,322,967** | **3,322,967** |
| | | **11.33.00** | **MATERIAL HANDLING EQUIPMENT** | | | | | | | | | |
| | | | MATERIAL HANDLING EQUIPMENT - U1 CONVEYORS, INCLUDING TRUSSES BENTS & EQUIPIMENT | | 54.00 TN | - | - | | 124 | 83.15 /MH | 10,305 | 10,305 |
| | | | **MATERIAL HANDLING EQUIPMENT** | | | | | | **124** | | **10,305** | **10,305** |
| | | **11.35.00** | **PIPING** | | | | | | | | | |
| | | | PIPING - U1 BOILER PLANT PIPNG & HANGERS | | 1,098.00 TN | - | - | | 2,520 | 87.21 /MH | 219,749 | 219,749 |
| | | | **PIPING** | | | | | | **2,520** | | **219,749** | **219,749** |
| | | **11.41.00** | **ELECTRICAL EQUIPMENT** | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - U1 GENERATOR BUS TRANSFORMERS AND MISC ELECTRICAL | | 542.00 TN | - | - | | 1,231 | 83.15 /MH | 102,357 | 102,357 |
| | | | ELECTRICAL EQUIPMENT - U1 SCR ELECTRICAL | | 1.00 LS | - | - | | 2,395 | 83.15 /MH | 199,144 | 199,144 |
| | | | **ELECTRICAL EQUIPMENT** | | | | | | **3,626** | | **301,501** | **301,501** |
| | | **11.86.00** | **WASTE** | | | | | | | | | |
| | | | WASTE | BUILDING WASTE ALLOWANCE | 2,900.00 CY | - | - | | 1,015 | 114.18 /MH | 115,893 | 115,893 |
| | | | **WASTE** | | | | | | **1,015** | | **115,893** | **115,893** |
| | | | **DEMOLITION** | | | | | | **75,090** | | **6,403,976** | **6,403,976** |
| | **18.00.00** | | **SCRAP VALUE** | | | | | | | | | |
| | | **18.10.00** | **MIXED STEEL** | | | | | | | | | |
| | | | STEEL SALVAGE - U1 TURBINE BLDG | STEEL SALVAGE | -497.00 TN | - | (54,173) | - | | 78.26 /MH | | (54,173) |
| | | | STEEL SALVAGE - U1 BOILER BLDG | STEEL SALVAGE | -1,130.00 TN | - | (123,170) | - | | 78.26 /MH | | (123,170) |
| | | | MIXED STEEL - U1 BOILER AND APPURTENANCES | STEEL SALVAGE | -6,900.00 TN | - | (752,100) | - | | 78.26 /MH | | (752,100) |
| | | | MIXED STEEL - U1 FLUES & DUCTS INCL BREECHING & STEEL SUPPORT | STEEL SALVAGE | -1,300.00 TN | - | (141,700) | - | | 78.26 /MH | | (141,700) |
| | | | MIXED STEEL - U1 PRECIPITATOR | STEEL SALVAGE | -3,900.00 TN | - | (425,100) | - | | 78.26 /MH | | (425,100) |
| | | | MIXED STEEL - U1 FEEDWATER DEAERATING EQUIPMENT | STEEL SALVAGE | -115.00 TN | - | (12,535) | - | | 78.26 /MH | | (12,535) |
| | | | MIXED STEEL - U1 BOILER PLANT PIPNG & HANGERS | STEEL SALVAGE | -1,098.00 TN | - | (119,682) | - | | 78.26 /MH | | (119,682) |
| | | | MIXED STEEL - U1 ASH HANDLING EQUIPMENT | STEEL SALVAGE | -77.00 TN | - | (8,393) | - | | 78.26 /MH | | (8,393) |
| | | | MIXED STEEL - U1 CONVEYORS, INCLUDING TRUSSES BENTS & EQUIPIMENT | STEEL SALVAGE | -54.00 TN | - | (5,886) | - | | 78.26 /MH | | (5,886) |
| | | | MIXED STEEL - U1 TURBINE GENERATOR & ACCESSORIES | STEEL SALVAGE | -792.00 TN | - | (86,328) | - | | 78.26 /MH | | (86,328) |
| | | | MIXED STEEL - U1 CONDENSER | STEEL SALVAGE | -311.00 TN | - | (33,899) | - | | 78.26 /MH | | (33,899) |
| | | | MIXED STEEL - U1 CIRC WATER SYSTEM, EQUIPMENT - PUMPS MTRS SWITCHGEAR, TRAVELING SCREENS | STEEL SALVAGE | -819.00 TN | - | (89,271) | - | | 78.26 /MH | | (89,271) |
| | | | MIXED STEEL - U1 GENERATOR BUS TRANSFORMERS AND MISC ELECTRICAL | STEEL SALVAGE | -542.00 TN | - | (59,078) | - | | 78.26 /MH | | (59,078) |
| | | | MIXED STEEL - U1 FGD EQUIPMENT | STEEL SALVAGE | -156.00 TN | - | (17,004) | - | | 78.26 /MH | | (17,004) |
| | | | MIXED STEEL - U1 FGD TANKS | STEEL SALVAGE | -231.00 TN | - | (25,179) | - | | 78.26 /MH | | (25,179) |

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MIXED STEEL - U1 FGD SCRUBBER VESSELS | STEEL SALVAGE | -320.00 TN | - | (34,880) | - | | 78.26 /MH | | (34,880) |
| | | | MIXED STEEL - U1 FGD DUCTWORK | STEEL SALVAGE | -194.00 TN | - | (21,146) | - | | 78.26 /MH | | (21,146) |
| | | | MIXED STEEL - U1 FGD PIPING | STEEL SALVAGE | -126.00 TN | - | (13,734) | - | | 78.26 /MH | | (13,734) |
| | | | MIXED STEEL - U1 SCR | STEEL SALVAGE | -124.00 TN | - | (13,516) | - | | 78.26 /MH | | (13,516) |
| | | | MIXED STEEL - U1 SCR EQUIPMENT | STEEL SALVAGE | -250.00 TN | - | (27,250) | - | | 78.26 /MH | | (27,250) |
| | | | MIXED STEEL - U1 SCR SUPPORT STEEEL | STEEL SALVAGE | -2,408.00 TN | - | (262,472) | - | | 78.26 /MH | | (262,472) |
| | | | MIXED STEEL - U1 SCR DUCTWORK | STEEL SALVAGE | -1,252.00 TN | - | (136,468) | - | | 78.26 /MH | | (136,468) |
| | | | MIXED STEEL | | | | (2,462,964) | | | | | (2,462,964) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | COPPER - U1 SCRAP COPPER | | -50.00 TN | - | (173,350) | - | | 78.26 /MH | | (173,350) |
| | | | COPPER | | | | (173,350) | | | | | (173,350) |
| | | 18.40.00 | NICKEL ALLOYS | | | | | | | | | |
| | | | NICKEL ALLOYS 1/8" HASTELLOY ABSORBER LINING | | -20.30 TN | - | (121,800) | - | | 78.26 /MH | | (121,800) |
| | | | NICKEL ALLOYS | | | | (121,800) | | | | | (121,800) |
| | | | SCRAP VALUE | | | | (2,758,114) | | | | | (2,758,114) |
| | | | **U1 UNIT 1 DEMOLITION** | | | | **(2,758,114)** | | **75,090** | | **6,403,976** | **3,645,862** |
| **U2** | | | **UNIT 2** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - U2 CHLORINE DIOXIDE BLDG, 5'X13' | | 24.00 CY | - | - | | 23 | 85.71 /MH | 1,967 | 1,967 |
| | | | CONCRETE FOUNDATION - UNIT 2 TURBINE BLDG, 120'X152', 55'X55' | | 1,575.00 CY | - | - | | 1,133 | 85.71 /MH | 97,074 | 97,074 |
| | | | CONCRETE FOUNDATION - UNIT 2 BOILER BLDG, '169'x148'' | | 1,852.00 CY | - | - | | 1,332 | 85.71 /MH | 114,146 | 114,146 |
| | | | CONCRETE FOUNDATION - UNIT 2 SO2 SLURRY THICKENER TANK, CONCRETE | | 1,734.00 CY | - | - | | 1,247 | 85.71 /MH | 106,873 | 106,873 |
| | | | CONCRETE FOUNDATION - UNIT 2 DRAFT EQUIPMENT FOUNDATIONS | | 9,040.00 CY | - | - | | 11,065 | 85.71 /MH | 948,378 | 948,378 |
| | | | CONCRETE FOUNDATION - UNIT 2 TURBINE PEDESTAL | | 1,371.00 CY | - | - | | 2,797 | 85.71 /MH | 239,717 | 239,717 |
| | | | CONCRETE FOUNDATION - UNIT 2 COOLING TOWER BASIN | | 557.00 CY | - | - | | 533 | 85.71 /MH | 45,652 | 45,652 |
| | | | CONCRETE FOUNDATION - UNIT 2 SCR FOUNDATIONS | | 432.00 CY | - | - | | 413 | 85.71 /MH | 35,407 | 35,407 |
| | | | CONCRETE FOUNDATION - UNIT 2 MISC FCR FOUNDATIONS | | 200.00 CY | - | - | | 191 | 85.71 /MH | 16,392 | 16,392 |
| | | | CONCRETE FOUNDATION - UNIT 2 BAG HOUSE FOUNDATION (MATS) | | 1,169.00 CY | - | - | | 1,118 | 85.71 /MH | 95,811 | 95,811 |
| | | | CONCRETE FOUNDATION - UNIT 2 NEW BOOSTER FAN FOUNDATION (MATS) | | 50.00 CY | - | - | | 48 | 85.71 /MH | 4,098 | 4,098 |
| | | | CONCRETE FOUNDATION - UNIT 2 DUCT SUPPORTS (MATS) | | 450.00 CY | - | - | | 430 | 85.71 /MH | 36,882 | 36,882 |
| | | | CONCRETE FOUNDATION - UNIT 2 ACI SILO FOUNDATION (MATS) | | 120.00 CY | - | - | | 115 | 85.71 /MH | 9,835 | 9,835 |
| | | | CONCRETE FOUNDATION - UNIT 2 PDC FOUNDATION (MATS) | | 78.00 CY | - | - | | 75 | 85.71 /MH | 6,393 | 6,393 |
| | | | CONCRETE - U2 TRANSFORMER FDN FIREWALL CURBS, PIERS AND BASINS | | 100.00 CY | - | - | | 96 | 85.71 /MH | 8,196 | 8,196 |
| | | | CONCRETE - U2 POWER BLOCK ELEVATED SLABS | | 2,094.00 CY | - | - | | 1,066 | 85.71 /MH | 91,381 | 91,381 |
| | | | CONCRETE | | | | | | 21,680 | | 1,858,202 | 1,858,202 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - U2 TURBINE BLDG | | 726.00 TN | - | - | | 627 | 78.26 /MH | 49,067 | 49,067 |
| | | | STRUCTURAL STEEL - U2 BOILER BLDG | | 2,316.00 TN | - | - | | 2,000 | 78.26 /MH | 156,528 | 156,528 |
| | | | STRUCTURAL STEEL - U2 SCR SUPPORT STEEL | | 3,490.00 TN | - | - | | 3,014 | 78.26 /MH | 235,873 | 235,873 |
| | | | STRUCTURAL STEEL - U2 BH STRUCTURE SUPPORT STEEL (MATS) | | 1,160.00 TN | - | - | | 1,002 | 78.26 /MH | 78,399 | 78,399 |
| | | | STRUCTURAL STEEL - U2 DUCT SUPPORT STEEL (MATS) | | 1,043.00 TN | - | - | | 901 | 78.26 /MH | 70,492 | 70,492 |
| | | | STRUCTURAL STEEL - U2 MISC. STEEL (MATS) | | 100.00 TN | - | - | | 86 | 78.26 /MH | 6,759 | 6,759 |
| | | | STEEL | | | | | | 7,630 | | 597,116 | 597,116 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - U2 CHLORINE DIOXIDE BOLDG, 5'X13' | | 650.00 CF | - | - | | 3 | 90.24 /MH | 235 | 235 |
| | | | ARCHITECTURAL - U2 POWER BLOCK EXTERIOR SIDING | | 50,118.00 SF | - | - | | 256 | 90.24 /MH | 23,066 | 23,066 |
| | | | ARCHITECTURAL - U2 POWER BLOCK MASONRY WALLS | | 1,716.00 SF | - | - | | 16 | 90.24 /MH | 1,448 | 1,448 |
| | | | ARCHITECTURAL - U2 POWER BLOCK ROOF | | 22,308.00 SF | - | - | | 284 | 99.09 /MH | 28,184 | 28,184 |
| | | | ARCHITECTURAL | | | | | | 559 | | 52,932 | 52,932 |

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**INDIANAPOLIS POWER & LIGHT**
**PETERSBURG**
**DEMOLITION ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.25.00 | CONCRETE CHIMNEY & STACK | | | | | | | | | |
| | | | DEMOLITION, CONCRETE CHIMNEY 75' DIA X 600' HIGH | TOP DOWN DEMOLITION - THIS CHIMNEY ENCLOSES 3 CARBON STEEL FLUES #1S, 2B & 2S | 7,390.00 CY | - | - | | 18,475 | 85.71 /MH | 1,583,492 | 1,583,492 |
| | | | CONCRETE CHIMNEY & STACK | | | | | | 18,475 | | 1,583,492 | 1,583,492 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - U2 BOILER AND APPURTENANCES | | 10,000.00 TN | - | - | | 22,950 | 87.21 /MH | 2,001,355 | 2,001,355 |
| | | | MECHANICAL EQUIPMENT - U2 FLUES & DUCTS INCL BREECHING & STEEL SUPPORT | | 2,000.00 TN | - | - | | 4,542 | 83.15 /MH | 377,701 | 377,701 |
| | | | MECHANICAL EQUIPMENT - U2 PRECIPITATOR | DEMOLISHED IN 2015 | 0.00 TN | - | - | 0 | | 83.15 /MH | 0 | 0 |
| | | | MECHANICAL EQUIPMENT - U2 FEEDWATER DEAERATING EQUIPMENT | | 150.00 TN | - | - | | 344 | 83.15 /MH | 28,624 | 28,624 |
| | | | MECHANICAL EQUIPMENT - U2 ASH HANDLING EQUIPMENT | | 100.00 TN | - | - | | 227 | 83.15 /MH | 18,885 | 18,885 |
| | | | MECHANICAL EQUIPMENT - U2 TURBINE GENERATOR & ACCESSORIES | | 1,150.00 TN | - | - | | 2,639 | 83.15 /MH | 219,454 | 219,454 |
| | | | MECHANICAL EQUIPMENT - U2 CONDENSER | | 410.00 TN | - | - | | 941 | 83.15 /MH | 78,240 | 78,240 |
| | | | MECHANICAL EQUIPMENT - U2 CIRC WATER SYSTEM, EQUIPMENT - PUMPS MTRS SWITCHGEAR, TRAVELING SCREENS | | 350.00 TN | - | - | | 803 | 83.15 /MH | 66,790 | 66,790 |
| | | | MECHANICAL EQUIPMENT - U2 FGD EQUIPMENT | | 226.00 TN | - | - | | 389 | 83.15 /MH | 32,346 | 32,346 |
| | | | MECHANICAL EQUIPMENT - U2 FGD TANKS | | 292.00 TN | - | - | | 503 | 83.15 /MH | 41,792 | 41,792 |
| | | | MECHANICAL EQUIPMENT - U2 FGD SCRUBBER VESSELS | | 465.00 TN | - | - | | 800 | 83.15 /MH | 66,552 | 66,552 |
| | | | MECHANICAL EQUIPMENT - U2 FGD DUCTWORK | | 281.00 TN | - | - | | 484 | 83.15 /MH | 40,217 | 40,217 |
| | | | MECHANICAL EQUIPMENT - U2 FGD PIPING | | 182.00 TN | - | - | | 418 | 83.15 /MH | 34,731 | 34,731 |
| | | | MECHANICAL EQUIPMENT - U2 SCR DUCTWORK | | 1,814.00 TN | - | - | | 5,494 | 83.15 /MH | 456,809 | 456,809 |
| | | | MECHANICAL EQUIPMENT - U2 SCR EQUIPMENT | | 363.00 TN | - | - | | 1,099 | 83.15 /MH | 91,412 | 91,412 |
| | | | MECHANICAL EQUIPMENT - U2 SCR | | 180.00 TN | - | - | | 413 | 83.15 /MH | 34,349 | 34,349 |
| | | | MECHANICAL EQUIPMENT - UNIT 2 BAGHOUSE (MATS) | | 246.00 TN | - | - | | 565 | 83.15 /MH | 46,944 | 46,944 |
| | | | MECHANICAL EQUIPMENT - U2 NEW DUCTWORK (MATS) | | 780.00 TN | - | - | | 1,343 | 83.15 /MH | 111,635 | 111,635 |
| | | | MECHANICAL EQUIPMENT - UNIT 2 COOLING TOWER | | 360,000.00 CF | - | - | | 1,530 | 90.24 /MH | 138,067 | 138,067 |
| | | | MECHANICAL EQUIPMENT | | | | | | 45,484 | | 3,885,902 | 3,885,902 |
| | | 11.33.00 | MATERIAL HANDLING EQUIPMENT | | | | | | | | | |
| | | | MATERIAL HANDLING EQUIPMENT - U2 CONVEYORS, INCLUDING TRUSSES BENTS & EQUIPIMENT | | 70.00 TN | - | - | | 161 | 83.15 /MH | 13,358 | 13,358 |
| | | | MATERIAL HANDLING EQUIPMENT | | | | | | 161 | | 13,358 | 13,358 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - U2 BOILER PLANT PIPNG & HANGERS | | 1,600.00 TN | - | - | | 3,672 | 87.21 /MH | 320,217 | 320,217 |
| | | | PIPING | | | | | | 3,672 | | 320,217 | 320,217 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - U2 GENERATOR BUS TRANSFORMERS AND MISC ELECTRICAL | | 80.00 TN | - | - | | 182 | 83.15 /MH | 15,108 | 15,108 |
| | | | ELECTRICAL EQUIPMENT - U2 SCR ELECTRICAL | | 1.00 LS | - | - | | 4,296 | 83.15 /MH | 357,212 | 357,212 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 4,478 | | 372,320 | 372,320 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | WASTE | BUILDING WASTE ALLOWANCE | 2,900.00 CY | - | - | | 1,015 | 114.18 /MH | 115,893 | 115,893 |
| | | | WASTE | | | | | | 1,015 | | 115,893 | 115,893 |
| | | | DEMOLITION | | | | | | 103,153 | | 8,799,433 | 8,799,433 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | CONCRETE CHIMNEY 75' DIA X 600' HIGH 3 CS STACK FLUES | STEEL SALVAGE | -620.00 TN | - | (67,580) | - | | 78.26 /MH | | (67,580) |
| | | | STEEL SALVAGE - U2 TURBINE BLDG | STEEL SALVAGE | -781.00 TN | - | (85,129) | - | | 78.26 /MH | | (85,129) |
| | | | STEEL SALVAGE - U2 BOILER BLDG | STEEL SALVAGE | -2,316.00 TN | - | (252,444) | - | | 78.26 /MH | | (252,444) |
| | | | MIXED STEEL - U2 BOILER AND APPURTENANCES | STEEL SALVAGE | -10,000.00 TN | - | (1,090,000) | - | | 78.26 /MH | | (1,090,000) |
| | | | MIXED STEEL - U2 FLUES & DUCTS INCL BREECHING & STEEL SUPPORT | STEEL SALVAGE | -2,000.00 TN | - | (218,000) | - | | 78.26 /MH | | (218,000) |
| | | | MIXED STEEL - U2 FEEDWATER DEAERATING EQUIPMENT | STEEL SALVAGE | -150.00 TN | - | (16,350) | - | | 78.26 /MH | | (16,350) |
| | | | MIXED STEEL - U2 BOILER PLANT PIPNG & HANGERS | STEEL SALVAGE | -1,600.00 TN | - | (174,400) | - | | 78.26 /MH | | (174,400) |
| | | | MIXED STEEL - U2 ASH HANDLING EQUIPMENT | STEEL SALVAGE | -100.00 TN | - | (10,900) | - | | 78.26 /MH | | (10,900) |
| | | | MIXED STEEL - U2 CONVEYORS, INCLUDING TRUSSES BENTS & EQUIPIMENT | STEEL SALVAGE | -70.00 TN | - | (7,630) | - | | 78.26 /MH | | (7,630) |

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**DEMOLITION ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MIXED STEEL - U2 TURBINE GENERATOR & ACCESSORIES | STEEL SALVAGE | -1,150.00 TN | - | (125,350) | - | | 78.26 /MH | | (125,350) |
| | | | MIXED STEEL - U2 CONDENSER | STEEL SALVAGE | -410.00 TN | - | (44,690) | - | | 78.26 /MH | | (44,690) |
| | | | MIXED STEEL - U2 CIRC WATER SYSTEM, EQUIPMENT - PUMPS MTRS SWITCHGEAR, TRAVELING SCREENS | STEEL SALVAGE | -350.00 TN | - | (38,150) | - | | 78.26 /MH | | (38,150) |
| | | | MIXED STEEL - U2 GENERATOR BUS TRANSFORMERS AND MISC ELECTRICAL | STEEL SALVAGE | -80.00 TN | - | (8,720) | - | | 78.26 /MH | | (8,720) |
| | | | MIXED STEEL - U2 FGD EQUIPMENT | STEEL SALVAGE | -226.00 TN | - | (24,634) | - | | 78.26 /MH | | (24,634) |
| | | | MIXED STEEL - U2 FGD TANKS | STEEL SALVAGE | -292.00 TN | - | (31,828) | - | | 78.26 /MH | | (31,828) |
| | | | MIXED STEEL - U2 FGD SCRUBBER VESSELS | STEEL SALVAGE | -465.00 TN | - | (50,685) | - | | 78.26 /MH | | (50,685) |
| | | | MIXED STEEL - U2 FGD DUCTWORK | STEEL SALVAGE | -281.00 TN | - | (30,629) | - | | 78.26 /MH | | (30,629) |
| | | | MIXED STEEL - U2 FGD PIPING | STEEL SALVAGE | -182.00 TN | - | (19,838) | - | | 78.26 /MH | | (19,838) |
| | | | MIXED STEEL - U2 SCR | STEEL SALVAGE | -180.00 TN | - | (19,620) | - | | 78.26 /MH | | (19,620) |
| | | | MIXED STEEL - U2 SCR EQUIPMENT | STEEL SALVAGE | -363.00 TN | - | (39,567) | - | | 78.26 /MH | | (39,567) |
| | | | MIXED STEEL - U2 SCR SUPPORT STEEEL | STEEL SALVAGE | -3,490.00 TN | - | (380,410) | - | | 78.26 /MH | | (380,410) |
| | | | MIXED STEEL - U2 SCR DUCTWORK | STEEL SALVAGE | -1,814.00 TN | - | (197,726) | - | | 78.26 /MH | | (197,726) |
| | | | MIXED STEEL - PIPING - MISC PIPING & HANGERS | STEEL SALVAGE | -1,200.00 TN | - | (130,800) | - | | 78.26 /MH | | (130,800) |
| | | | MIXED STEEL - U2 BH STRUCTURE SUPPORT STEEL (MATS) | STEEL SALVAGE | -1,160.00 TN | - | (126,440) | - | | 78.26 /MH | | (126,440) |
| | | | MIXED STEEL - U2 DUCT SUPPORT STEEL (MATS) | STEEL SALVAGE | -1,043.00 TN | - | (113,687) | - | | 78.26 /MH | | (113,687) |
| | | | MIXED STEEL - U2 MISC. STEEL (MATS) | STEEL SALVAGE | -100.00 TN | - | (10,900) | - | | 78.26 /MH | | (10,900) |
| | | | MIXED STEEL - UNIT 2 BAGHOUSE (MATS) | STEEL SALVAGE | -246.00 TN | - | (26,814) | - | | 78.26 /MH | | (26,814) |
| | | | MIXED STEEL - U2 NEW DUCTWORK (MATS) | STEEL SALVAGE | -780.00 TN | - | (85,020) | - | | 78.26 /MH | | (85,020) |
| | | | MIXED STEEL | | | | (3,427,941) | | | | | (3,427,941) |
| | | 18.30.00 | COPPER | | | | | | | | | |
| | | | COPPER - U2 SCRAP COPPER | | -20.00 TN | - | (69,340) | - | | 78.26 /MH | | (69,340) |
| | | | COPPER | | | | (69,340) | | | | | (69,340) |
| | | 18.40.00 | NICKEL ALLOYS | | | | | | | | | |
| | | | NICKEL ALLOYS 1/8" AND 1/16" HASTELLOY ABSORBER LINING | | -30.40 TN | - | (182,400) | - | | 78.26 /MH | | (182,400) |
| | | | NICKEL ALLOYS | | | | (182,400) | | | | | (182,400) |
| | | | SCRAP VALUE | | | | (3,679,681) | | | | | (3,679,681) |
| | | | **U2 UNIT 2** | | | | **(3,679,681)** | | **103,153** | | **8,799,433** | **5,119,752** |
| **U3** | | | **UNIT 3** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - UNIT 3 COOLING TOWER PUMP HOUSE, 47'X52' | | 156.00 CY | - | - | | 149 | 85.71 /MH | 12,786 | 12,786 |
| | | | CONCRETE FOUNDATION - UNIT 3 & 4 CHLORINE DIOXIDE BLDG, 22'X30' | | 25.00 CY | - | - | | 24 | 85.71 /MH | 2,049 | 2,049 |
| | | | CONCRETE FOUNDATION - U3 COOLING TOWER SWITCHYARD BLDG, 100'X26' | | 97.00 CY | - | - | | 93 | 85.71 /MH | 7,950 | 7,950 |
| | | | CONCRETE FOUNDATION - UNIT 3 TURBINE BLDG, '206'X138' | | 2,105.00 CY | - | - | | 1,514 | 85.71 /MH | 129,740 | 129,740 |
| | | | CONCRETE FOUNDATION - UNIT 3 BOILER BLDG, '206'X181' | | 2,762.00 CY | - | - | | 1,986 | 85.71 /MH | 170,233 | 170,233 |
| | | | CONCRETE FOUNDATION - UNIT 3 DEWATERING PROCESS BLDG, 120"X50' | | 445.00 CY | - | - | | 227 | 85.71 /MH | 19,419 | 19,419 |
| | | | CONCRETE FOUNDATION - UNIT 3 SO2 SLURRY THICKENER TANK, CONCRETE, 165' DIAMETER | | 1,891.00 CY | - | - | | 1,360 | 85.71 /MH | 116,550 | 116,550 |
| | | | CONCRETE FOUNDATION - UNIT 3 TURBINE PEDESTAL | | 1,400.00 CY | - | - | | 2,856 | 85.71 /MH | 244,788 | 244,788 |
| | | | CONCRETE FOUNDATION - UNIT 3 COOLING TOWER BASIN | | 957.00 CY | - | - | | 915 | 85.71 /MH | 78,436 | 78,436 |
| | | | CONCRETE FOUNDATION - UNIT 3 BAGHOUSE FOUNDATION (MATS) | | 850.00 CY | - | - | | 813 | 85.71 /MH | 69,666 | 69,666 |
| | | | CONCRETE FOUNDATION - UNIT 3 NEW BOOSTER FAN FOUNDATION (MATS) | | 75.00 CY | - | - | | 72 | 85.71 /MH | 6,147 | 6,147 |
| | | | CONCRETE FOUNDATION - UNIT 3 DUCT SUPPORT FOUNDATION (MATS) | | 400.00 CY | - | - | | 383 | 85.71 /MH | 32,784 | 32,784 |
| | | | CONCRETE FOUNDATION - UNIT 3 ACI SILO FOUNDATION (MATS) | | 120.00 CY | - | - | | 115 | 85.71 /MH | 9,835 | 9,835 |
| | | | CONCRETE FOUNDATION - UNIT 3 GAT & UAT FOUNDATIONS (MATS) | | 208.00 CY | - | - | | 199 | 85.71 /MH | 17,048 | 17,048 |
| | | | CONCRETE FOUNDATION - UNIT 3 PDC FOUNDATIONS (MATS) | | 78.00 CY | - | - | | 75 | 85.71 /MH | 6,393 | 6,393 |
| | | | CONCRETE - U3 POWER BLOCK ELEVATED SLABS | | 3,158.00 CY | - | - | | 1,608 | 85.71 /MH | 137,813 | 137,813 |
| | | | CONCRETE | | | | | | 12,386 | | 1,061,637 | 1,061,637 |

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**DEMOLITION ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - U3 TURBINE BLDG | | 1,336.00 TN | - | - | | 1,154 | 78.26 /MH | 90,294 | 90,294 |
| | | | STRUCTURAL STEEL - U3 BOILER BLDG | | 4,619.00 TN | - | - | | 3,989 | 78.26 /MH | 312,177 | 312,177 |
| | | | STRUCTURAL STEEL - U3 SCR SUPPORT STEEEL | | 4,040.00 TN | - | - | | 3,489 | 78.26 /MH | 273,045 | 273,045 |
| | | | STRUCTURAL STEEL - U3 BH STRUCTURE SUPPORT STEEL (MATS) | | 129.00 TN | - | - | | 111 | 78.26 /MH | 8,719 | 8,719 |
| | | | STRUCTURAL STEEL - U3 DUCT SUPPORT STEEL (MATS) | | 1,141.00 TN | - | - | | 985 | 78.26 /MH | 77,115 | 77,115 |
| | | | STRUCTURAL STEEL - U3 MISC. STEEL (MATS) | | 90.00 TN | - | - | | 78 | 78.26 /MH | 6,083 | 6,083 |
| | | | STEEL | | | | | | 9,806 | | 767,432 | 767,432 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - UNIT 3 COOLING TOWER PUMP HOUSE, 47'X52' | | 34,516.00 CF | - | - | | 138 | 90.24 /MH | 12,459 | 12,459 |
| | | | ARCHITECTURAL - UNIT 3 & 4 CHLORINE DIOXIDE BLDG, 22'X30' | | 7,920.00 CF | - | - | | 32 | 90.24 /MH | 2,859 | 2,859 |
| | | | ARCHITECTURAL - U3 COOLING TOWER SWITCHYARD BLDG, 100'X26' | | 26,000.00 CF | - | - | | 104 | 90.24 /MH | 9,385 | 9,385 |
| | | | ARCHITECTURAL - U3 POWER BLOCK EXTERIOR SIDING | | 120,653.00 SF | - | - | | 615 | 90.24 /MH | 55,527 | 55,527 |
| | | | ARCHITECTURAL - U3 POWER BLOCK MASONRY WALLS | | 2,678.00 SF | - | - | | 25 | 90.24 /MH | 2,260 | 2,260 |
| | | | ARCHITECTURAL - U3 POWER BLOCK ROOF | | 64,309.00 SF | - | - | | 820 | 99.09 /MH | 81,248 | 81,248 |
| | | | ARCHITECTURAL | | | | | | 1,734 | | 163,737 | 163,737 |
| | | 11.25.00 | CONCRETE CHIMNEY & STACK | | | | | | | | | |
| | | | DEMOLITION, CONCRETE CHIMNEY 22' DIA X 615" HIGH | TOP DOWN DEMOLITION | 2,855.00 CY | - | - | | 7,138 | 85.71 /MH | 611,755 | 611,755 |
| | | | CONCRETE CHIMNEY & STACK | | | | | | 7,138 | | 611,755 | 611,755 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - U3 BOILER AND APPURTENANCES | | 11,600.00 TN | - | - | | 19,967 | 83.15 /MH | 1,660,214 | 1,660,214 |
| | | | MECHANICAL EQUIPMENT - U3 DRAFT EQUIPMENT | | 348.00 TN | - | - | | 599 | 83.15 /MH | 49,806 | 49,806 |
| | | | MECHANICAL EQUIPMENT - U3 FLUES & DUCTS | | 1,280.00 TN | - | - | | 2,203 | 83.15 /MH | 183,196 | 183,196 |
| | | | MECHANICAL EQUIPMENT - U3 PRECIPITATORS | | 1,209.00 TN | - | - | | 2,081 | 83.15 /MH | 173,034 | 173,034 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 TURBINE GENERATOR | | 1,200.00 TN | - | - | | 2,066 | 83.15 /MH | 171,746 | 171,746 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 CONDENSER | | 778.00 TN | - | - | | 1,339 | 83.15 /MH | 111,349 | 111,349 |
| | | | MECHANICAL EQUIPMENT - - UNIT 3 CIRCULATING WATER PUMPS | | 113.00 TN | - | - | | 195 | 83.15 /MH | 16,173 | 16,173 |
| | | | MECHANICAL EQUIPMENT - U3 FGD EQUIPMENT | | 262.00 TN | - | - | | 451 | 83.15 /MH | 37,498 | 37,498 |
| | | | MECHANICAL EQUIPMENT - U3 FGD TANKS | | 388.00 TN | - | - | | 668 | 83.15 /MH | 55,531 | 55,531 |
| | | | MECHANICAL EQUIPMENT - U3 FGD SCRUBBER VESSELS | | 538.00 TN | - | - | | 926 | 83.15 /MH | 77,000 | 77,000 |
| | | | MECHANICAL EQUIPMENT - U3 FGD DUCTWORK | | 325.00 TN | - | - | | 559 | 83.15 /MH | 46,515 | 46,515 |
| | | | MECHANICAL EQUIPMENT - U3 FGD PIPING | | 421.00 TN | - | - | | 725 | 83.15 /MH | 60,254 | 60,254 |
| | | | MECHANICAL EQUIPMENT - U3 ASH HANDLING EQUIPMENT | | 124.00 TN | - | - | | 285 | 83.15 /MH | 23,663 | 23,663 |
| | | | MECHANICAL EQUIPMENT - U3 SCR DUCTWORK | | 2,100.00 TN | - | - | | 4,770 | 83.15 /MH | 396,586 | 396,586 |
| | | | MECHANICAL EQUIPMENT - U3 SCR EQUIPMENT | | 420.00 TN | - | - | | 954 | 83.15 /MH | 79,317 | 79,317 |
| | | | MECHANICAL EQUIPMENT - UNIT 3 COOLING TOWER | | 540,000.00 CF | - | - | | 2,160 | 90.24 /MH | 194,918 | 194,918 |
| | | | MECHANICAL EQUIPMENT - U3 SCR | | 208.00 TN | - | - | | 477 | 83.15 /MH | 39,692 | 39,692 |
| | | | MECHANICAL EQUIPMENT - U3 BAGHOUSE (MATS) | | 233.00 TN | - | - | | 401 | 83.15 /MH | 33,347 | 33,347 |
| | | | MECHANICAL EQUIPMENT - U3 NEW DUCTWORK (MATS) | | 1,130.00 TN | - | - | | 1,945 | 83.15 /MH | 161,728 | 161,728 |
| | | | MECHANICAL EQUIPMENT | | | | | | 42,769 | | 3,571,569 | 3,571,569 |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - UNIT 3 HEAVY WALLED | | 1,600.00 TN | - | - | | 3,672 | 83.15 /MH | 305,327 | 305,327 |
| | | | PIPING | | | | | | 3,672 | | 305,327 | 305,327 |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - U3 SWITCHGEAR | | 49.00 TN | - | - | | 111 | 83.15 /MH | 9,254 | 9,254 |
| | | | ELECTRICAL EQUIPMENT - U3 SCR ELECTRICAL | | 1.00 LS | - | - | | 5,165 | 83.15 /MH | 429,470 | 429,470 |
| | | | ELECTRICAL EQUIPMENT | | | | | | 5,276 | | 438,723 | 438,723 |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | WASTE | BUILDING WASTE ALLOWANCE | 2,900.00 CY | - | - | | 1,015 | 114.18 /MH | 115,893 | 115,893 |
| | | | WASTE | | | | | | 1,015 | | 115,893 | 115,893 |
| | | | DEMOLITION | | | | | | 83,797 | | 7,036,073 | 7,036,073 |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | STEEL SALVAGE - U3 TURBINE BLDG | STEEL SALVAGE | -1,336.00 TN | - | (145,624) | - | | 78.26 /MH | | (145,624) |
| | | | STEEL SALVAGE - U3 BOILER BLDG | STEEL SALVAGE | -4,619.00 TN | - | (503,471) | - | | 78.26 /MH | | (503,471) |
| | | | MIXED STEEL - UNIT 3 TURBINE GENERATOR | STEEL SALVAGE | -1,200.00 TN | - | (130,800) | - | | 78.26 /MH | | (130,800) |

Estimate No..: 32708H
Project No.: 10572-097
Estimate Date: 9/30/16
Prep/Rev/App: BA, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**PETERSBURG**
**DEMOLITION ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | MIXED STEEL - UNIT 3 CONDENSER | STEEL SALVAGE | -778.00 TN | - | (84,802) | - | | 78.26 /MH | | (84,802) |
| | | | MIXED STEEL - UNIT 3 CIRCULATING WATER PUMPS | STEEL SALVAGE | -113.00 TN | - | (12,317) | - | | 78.26 /MH | | (12,317) |
| | | | MIXED STEEL - U3 FGD EQUIPMENT | STEEL SALVAGE | -262.00 TN | - | (28,558) | - | | 78.26 /MH | | (28,558) |
| | | | MIXED STEEL - U3 FGD TANKS | STEEL SALVAGE | -388.00 TN | - | (42,292) | - | | 78.26 /MH | | (42,292) |
| | | | MIXED STEEL - U3 FGD SCRUBBER VESSELS | STEEL SALVAGE | -538.00 TN | - | (58,642) | - | | 78.26 /MH | | (58,642) |
| | | | MIXED STEEL - U3 FGD DUCTWORK | STEEL SALVAGE | -325.00 TN | - | (35,425) | - | | 78.26 /MH | | (35,425) |
| | | | MIXED STEEL - U3 FGD PIPING | STEEL SALVAGE | -424.00 TN | - | (46,216) | - | | 78.26 /MH | | (46,216) |
| | | | MIXED STEEL - U3 ASH HANDLING EQUIPMENT | STEEL SALVAGE | -124.00 TN | - | (13,516) | - | | 78.26 /MH | | (13,516) |
| | | | MIXED STEEL - U3 SCR DUCTWORK | STEEL SALVAGE | -2,100.00 TN | - | (228,900) | - | | 78.26 /MH | | (228,900) |
| | | | MIXED STEEL - U3 SCR SUPPORT STEEEL | STEEL SALVAGE | -4,040.00 TN | - | (440,360) | - | | 78.26 /MH | | (440,360) |
| | | | MIXED STEEL - U3 SCR | STEEL SALVAGE | -208.00 TN | - | (22,672) | - | | 78.26 /MH | | (22,672) |
| | | | MIXED STEEL - U3 SCR EQUIPMENT | STEEL SALVAGE | -420.00 TN | - | (45,780) | - | | 78.26 /MH | | (45,780) |
| | | | MIXED STEEL - PIPING - UNIT 3 HEAVY WALLED | STEEL SALVAGE | -1,600.00 TN | - | (174,400) | - | | 78.26 /MH | | (174,400) |
| | | | MIXED STEEL - U3 BOILER AND APPURTENANCES | STEEL SALVAGE | -11,600.00 TN | - | (1,264,400) | - | | 78.26 /MH | | (1,264,400) |
| | | | MIXED STEEL - U3 BH STRUCTURE SUPPORT STEEL (MATS) | STEEL SALVAGE | -129.00 TN | - | (14,061) | - | | 78.26 /MH | | (14,061) |
| | | | MIXED STEEL - U3 DUCT SUPPORT STEEL (MATS) | STEEL SALVAGE | -1,141.00 TN | - | (124,369) | - | | 78.26 /MH | | (124,369) |
| | | | MIXED STEEL - U3 MISC. STEEL (MATS) | STEEL SALVAGE | -90.00 TN | - | (9,810) | - | | 78.26 /MH | | (9,810) |
| | | | MIXED STEEL - U3 BAGHOUSE (MATS) | STEEL SALVAGE | -233.00 TN | - | (25,397) | - | | 78.26 /MH | | (25,397) |
| | | | MIXED STEEL - U3 NEW DUCTWORK (MATS) | STEEL SALVAGE | -1,130.00 TN | - | (123,170) | - | | 78.26 /MH | | (123,170) |
| | | | MIXED STEEL | | | | (3,574,982) | | | | | (3,574,982) |
| | | | SCRAP VALUE | | | | (3,574,982) | | | | | (3,574,982) |
| | | | **U3 UNIT 3** | | | | **(3,574,982)** | | **83,797** | | **7,036,073** | **3,461,091** |
| **U4** | | | **UNIT 4** | | | | | | | | | |
| | 11.00.00 | | DEMOLITION | | | | | | | | | |
| | | 11.22.00 | CONCRETE | | | | | | | | | |
| | | | CONCRETE FOUNDATION - UNIT 4 COOLING TOWER PUMP HOUSE, 27'x52' | | 196.00 CY | - | - | | 187 | 85.71 /MH | 16,064 | 16,064 |
| | | | CONCRETE FOUNDATION - U4 COOLING TOWER SWITCHYARD BLDG, 40'X26' | | 39.00 CY | - | - | | 37 | 85.71 /MH | 3,196 | 3,196 |
| | | | CONCRETE FOUNDATION - UNIT 4 TURBINE BLDG, 232'X137' | | 2,359.00 CY | - | - | | 1,696 | 85.71 /MH | 145,395 | 145,395 |
| | | | CONCRETE FOUNDATION - UNIT 4 BOILER BLDG, 193'X215' | | 3,073.00 CY | - | - | | 2,210 | 85.71 /MH | 189,401 | 189,401 |
| | | | CONCRETE FOUNDATION - UNIT 4 DEWATERING PROCESS BLDG, 120"X50' | | 445.00 CY | - | - | | 681 | 85.71 /MH | 58,356 | 58,356 |
| | | | CONCRETE FOUNDATION - UNIT 4 SO2 SLURRY THICKENER TANK, CONCRETE, 165' DIAMETER | | 1,891.00 CY | - | - | | 1,360 | 85.71 /MH | 116,550 | 116,550 |
| | | | CONCRETE FOUNDATION - UNIT 4 TURBINE PEDESTAL | | 1,400.00 CY | - | - | | 2,856 | 85.71 /MH | 244,788 | 244,788 |
| | | | CONCRETE FOUNDATION - UNIT 4 COOLING TOWER BASIN | | 987.00 CY | - | - | | 944 | 85.71 /MH | 80,895 | 80,895 |
| | | | CONCRETE FOUNDATION - UNIT 4 ACI SILO FOUNDATION (MATS) | | 120.00 CY | - | - | | 115 | 85.71 /MH | 9,835 | 9,835 |
| | | | CONCRETE - U4 POWER BLOCK ELEVATED SLABS | | 3,532.00 CY | - | - | | 1,798 | 85.71 /MH | 154,134 | 154,134 |
| | | | CONCRETE | | | | | | 11,884 | | 1,018,614 | 1,018,614 |
| | | 11.23.00 | STEEL | | | | | | | | | |
| | | | STRUCTURAL STEEL - U4 TURBINE BLDG | | 1,336.00 TN | - | - | | 1,154 | 78.26 /MH | 90,294 | 90,294 |
| | | | STRUCTURAL STEEL - U4 BOILER BLDG | | 4,619.00 TN | - | - | | 3,989 | 78.26 /MH | 312,177 | 312,177 |
| | | | STRUCTURAL STEEL - U4 SCR SUPPORT STEEEL | | 4,040.00 TN | - | - | | 3,489 | 78.26 /MH | 273,045 | 273,045 |
| | | | STEEL | | | | | | 8,632 | | 675,515 | 675,515 |
| | | 11.24.00 | ARCHITECTURAL | | | | | | | | | |
| | | | ARCHITECTURAL - UNIT 4 COOLING TOWER PUMP HOUSE, 27'x52' | | 24,696.00 CF | - | - | | 99 | 90.24 /MH | 8,914 | 8,914 |
| | | | ARCHITECTURAL - U4 COOLING TOWER SWITCHYARD BLDG, 40'X26' | | 10,400.00 CF | - | - | | 42 | 90.24 /MH | 3,754 | 3,754 |
| | | | ARCHITECTURAL - U4 POWER BLOCK EXTERIOR SIDING | | 199,587.00 SF | - | - | | 1,018 | 90.24 /MH | 91,855 | 91,855 |
| | | | ARCHITECTURAL - U4 POWER BLOCK MASONRY WALLS | | 1,781.00 SF | - | - | | 17 | 90.24 /MH | 1,503 | 1,503 |
| | | | ARCHITECTURAL - U4 POWER BLOCK ROOF | | 65,559.00 SF | - | - | | 836 | 99.09 /MH | 82,827 | 82,827 |
| | | | ARCHITECTURAL | | | | | | 2,011 | | 188,853 | 188,853 |
| | | 11.25.00 | CONCRETE CHIMNEY & STACK | | | | | | | | | |
| | | | DEMOLITION, CONCRETE CHIMNEY 22' DIA X 615' HIGH | TOP DOWN DEMOLITION | 2,855.00 CY | - | - | | 7,138 | 85.71 /MH | 611,755 | 611,755 |
| | | | CONCRETE CHIMNEY & STACK | | | | | | 7,138 | | 611,755 | 611,755 |
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - U4 BOILER AND APURTENANCES | | 11,600.00 TN | - | - | | 19,967 | 83.15 /MH | 1,660,214 | 1,660,214 |

Estimate No..: 32708H
Project No.: 10572-097
Estimate Date: 9/30/16
Prep/Rev/App: BA, /GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**PETERSBURG**
**DEMOLITION ESTIMATE**

Sargent & Lundy

| Area | Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11.31.00 | MECHANICAL EQUIPMENT | | | | | | | | | |
| | | | MECHANICAL EQUIPMENT - U4 DRAFT EQUIPMENT | | 348.00 TN | - | - | | 599 | 83.15 /MH | 49,806 | 49,806 |
| | | | MECHANICAL EQUIPMENT - U4 FLUES & DUCTS | | 1,280.00 TN | - | - | | 2,203 | 83.15 /MH | 183,196 | 183,196 |
| | | | MECHANICAL EQUIPMENT - U4 PRECIPITATORS | | 1,209.00 TN | - | - | | 2,081 | 83.15 /MH | 173,034 | 173,034 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 TURBINE GENERATOR | | 1,200.00 TN | - | - | | 2,066 | 83.15 /MH | 171,746 | 171,746 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 CONDENSER | | 778.00 TN | - | - | | 1,339 | 83.15 /MH | 111,349 | 111,349 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 CIRCULATING WATER PUMPS | | 113.00 TN | - | - | | 195 | 83.15 /MH | 16,173 | 16,173 |
| | | | MECHANICAL EQUIPMENT - U4 FGD EQUIPMENT | | 262.00 TN | - | - | | 451 | 83.15 /MH | 37,498 | 37,498 |
| | | | MECHANICAL EQUIPMENT - U4 FGD TANKS | | 388.00 TN | - | - | | 668 | 83.15 /MH | 55,531 | 55,531 |
| | | | MECHANICAL EQUIPMENT - U4 FGD SCRUBBER VESSELS | | 538.00 TN | - | - | | 926 | 83.15 /MH | 77,000 | 77,000 |
| | | | MECHANICAL EQUIPMENT - U4 FGD DUCTWORK | | 325.00 TN | - | - | | 559 | 83.15 /MH | 46,515 | 46,515 |
| | | | MECHANICAL EQUIPMENT - U4 FGD PIPING | | 421.00 TN | - | - | | 725 | 83.15 /MH | 60,254 | 60,254 |
| | | | MECHANICAL EQUIPMENT - U4 ASH HANDLING EQUIPMENT | | 124.00 TN | - | - | | 285 | 83.15 /MH | 23,663 | 23,663 |
| | | | MECHANICAL EQUIPMENT - U4 SCR DUCTWORK | | 2,100.00 TN | - | - | | 4,770 | 83.15 /MH | 396,586 | 396,586 |
| | | | MECHANICAL EQUIPMENT - U4 SCR EQUIPMENT | | 420.00 TN | - | - | | 954 | 83.15 /MH | 79,317 | 79,317 |
| | | | MECHANICAL EQUIPMENT - UNIT 4 COOLING TOWER | | 564,000.00 CF | - | - | | 2,256 | 90.24 /MH | 203,581 | 203,581 |
| | | | **MECHANICAL EQUIPMENT** | | | | | | **40,042** | | **3,345,464** | **3,345,464** |
| | | 11.35.00 | PIPING | | | | | | | | | |
| | | | PIPING - UNIT 4 HEAVY WALLED | | 1,600.00 TN | - | - | | 3,672 | 83.15 /MH | 305,327 | 305,327 |
| | | | **PIPING** | | | | | | **3,672** | | **305,327** | **305,327** |
| | | 11.41.00 | ELECTRICAL EQUIPMENT | | | | | | | | | |
| | | | ELECTRICAL EQUIPMENT - U4 SWITCHGEAR | | 49.00 TN | - | - | | 111 | 83.15 /MH | 9,254 | 9,254 |
| | | | ELECTRICAL EQUIPMENT - U4 SCR ELECTRICAL | | 1.00 LS | - | - | | 5,165 | 83.15 /MH | 429,470 | 429,470 |
| | | | **ELECTRICAL EQUIPMENT** | | | | | | **5,276** | | **438,723** | **438,723** |
| | | 11.86.00 | WASTE | | | | | | | | | |
| | | | WASTE | BUILDING WASTE ALLOWANCE | 2,900.00 CY | - | - | | 1,015 | 114.18 /MH | 115,893 | 115,893 |
| | | | **WASTE** | | | | | | **1,015** | | **115,893** | **115,893** |
| | | | **DEMOLITION** | | | | | | **79,669** | | **6,700,144** | **6,700,144** |
| | 18.00.00 | | SCRAP VALUE | | | | | | | | | |
| | | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | | STEEL SALVAGE - U4 TURBINE BLDG | STEEL SALVAGE | -1,430.00 TN | - | (155,870) | - | | 78.26 /MH | | (155,870) |
| | | | STEEL SALVAGE- U4 BOILER BLDG | STEEL SALVAGE | -4,690.00 TN | - | (511,210) | - | | 78.26 /MH | | (511,210) |
| | | | MIXED STEEL- UNIT 4 TURBINE GENERATOR | STEEL SALVAGE | -1,200.00 TN | - | (130,800) | - | | 78.26 /MH | | (130,800) |
| | | | MIXED STEEL - UNIT 4 CONDENSER | STEEL SALVAGE | -778.00 TN | - | (84,802) | - | | 78.26 /MH | | (84,802) |
| | | | MIXED STEEL - UNIT 4 CIRCULATING WATER PUMPS | STEEL SALVAGE | -113.00 TN | - | (12,317) | - | | 78.26 /MH | | (12,317) |
| | | | MIXED STEEL - U4 FGD EQUIPMENT | STEEL SALVAGE | -262.00 TN | - | (28,558) | - | | 78.26 /MH | | (28,558) |
| | | | MIXED STEEL - U4 FGD TANKS | STEEL SALVAGE | -388.00 TN | - | (42,292) | - | | 78.26 /MH | | (42,292) |
| | | | MIXED STEEL - U4 FGD SCRUBBER VESSELS | STEEL SALVAGE | -538.00 TN | - | (58,642) | - | | 78.26 /MH | | (58,642) |
| | | | MIXED STEEL - U4 FGD DUCTWORK | STEEL SALVAGE | -325.00 TN | - | (35,425) | - | | 78.26 /MH | | (35,425) |
| | | | MIXED STEEL - U4 FGD PIPING | STEEL SALVAGE | -421.00 TN | - | (45,889) | - | | 78.26 /MH | | (45,889) |
| | | | MIXED STEEL- U4 ASH HANDLING EQUIPMENT | STEEL SALVAGE | -124.00 TN | - | (13,516) | - | | 78.26 /MH | | (13,516) |
| | | | MIXED STEEL - U4 SCR DUCTWORK | STEEL SALVAGE | -2,100.00 TN | - | (228,900) | - | | 78.26 /MH | | (228,900) |
| | | | MIXED STEEL - U4 SCR SUPPORT STEEEL | STEEL SALVAGE | -4,040.00 TN | - | (440,360) | - | | 78.26 /MH | | (440,360) |
| | | | MIXED STEEL - U4 SCR | STEEL SALVAGE | -208.00 TN | - | (22,672) | - | | 78.26 /MH | | (22,672) |
| | | | MIXED STEEL - U4 SCR EQUIPMENT | STEEL SALVAGE | -420.00 TN | - | (45,780) | - | | 78.26 /MH | | (45,780) |
| | | | MIXED STEEL - PIPING - UNIT 4 HEAVY WALLED | STEEL SALVAGE | -1,600.00 TN | - | (174,400) | - | | 78.26 /MH | | (174,400) |
| | | | MIXED STEEL - U4 BOILER AND APURTENANCES | STEEL SALVAGE | -11,600.00 TN | - | (1,264,400) | - | | 78.26 /MH | | (1,264,400) |
| | | | **MIXED STEEL** | | | | **(3,295,833)** | | | | | **(3,295,833)** |
| | | | **SCRAP VALUE** | | | | **(3,295,833)** | | | | | **(3,295,833)** |
| | | | **U4 UNIT 4** | | | | **(3,295,833)** | | **79,669** | | **6,700,144** | **3,404,311** |

# EXHIBIT 5
# Georgetown Station
# Conceptual Demolition Cost Estimate No. 33928C

# INDIANAPOLIS POWER & LIGHT
# GEORGETOWN STATION
# DEMOLITION ESTIMATE

| | |
|---|---|
| **Estimator** | BA |
| **Labor rate table** | 16ININD |
| **Project No.** | 10572-097 |
| **Estimate Date** | 09/28/2016 |
| **Reviewed By** | GA |
| **Approved By** | MNO |
| **Estimate No.** | 33928C |
| **Estimate Class** | Conceptual |

Estimate No.: 33928C
Project No.: 10572-097
Estimate Date: 09/28/2016
Prep./Rev/App.: BA/GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**GEORGETOWN STATION**
**DEMOLITION ESTIMATE**

Sargent & Lundy

| Group | Description | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|
| 11.00.00 | DEMOLITION | 19,050 | | | 11,361 | 973,674 | 992,724 |
| 18.00.00 | SCRAP VALUE | | (625,960) | | 0 | (20) | (625,980) |
| 21.00.00 | CIVIL WORK | 184,350 | | 127,585 | 263 | 50,654 | 362,589 |
| 81.00.00 | OWNER COST | 250,560 | | | | | 250,560 |
| | TOTAL DIRECT | 453,960 | (625,960) | 127,585 | 11,624 | 1,024,308 | 979,894 |

Estimate No.: 33928C
Project No.: 10572-097
Estimate Date: 09/28/2016
Prep./Rev/App.: BA/GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**GEORGETOWN STATION**
**DEMOLITION ESTIMATE**

Sargent & Lundy

## Estimate Totals

| Description | Amount | Totals | Hours |
|---|---|---|---|
| **Direct Costs:** | | | |
| Labor | 1,024,308 | | 11,624 |
| Material | 127,585 | | |
| Subcontract | 453,960 | | |
| Scrap Value | (625,960) | | |
| | **979,893** | **979,893** | |
| **Other Direct & Construction Indirect Costs:** | | | |
| 91-1 Scaffolding | | | |
| 91-2 Cost Due To OT 5-10's | | | |
| 91-3 Cost Due To OT 6-10's | | | |
| 91-4 Per Diem | | | |
| 91-5 Consumables | 10,243 | | |
| 91-8 Freight on Material | 6,379 | | |
| 91-9 Freight on Process Equip | | | |
| 91-10 Sales Tax | | | |
| 91-11 Contractors G&A | 81,796 | | |
| 91-12 Contractors Profit | 116,852 | | |
| | **215,270** | **1,195,163** | |
| **Indirect Costs:** | | | |
| 93-1 Engineering Services | | | |
| 93-2 CM Support | | | |
| 93-3 Start-Up/Commissioning | | | |
| 93-4 Start-Up/Spare Parts | | | |
| 93-5 Excess Liability Insur. | | | |
| 93-6 Sales Tax On Indirects | | | |
| 93-7 Owners Cost | 2,000,000 | | |
| 93-8 EPC Fee | | | |
| | **2,000,000** | **3,195,163** | |
| **Contingency:** | | | |
| 94-1 Contingency on Material | 31,348 | | |
| 94-2 Contingency on Labor | 242,085 | | |
| 94-3 Contingency on Sub. | 90,792 | | |
| 94-6 Contingency on Scrap | 125,192 | | |
| 94-5 Contingency on Indirect | 400,000 | | |
| | **889,417** | **4,084,580** | |
| **Escalation:** | | | |
| 96-1 Escalation on Material | 15,420 | | |
| 96-2 Escalation on Labor | 119,083 | | |
| 96-3 Escalation on Subcontract | 44,661 | | |
| 96-4 Escalation on Scrap Value | 41,055 | | |
| 96-5 Escalation on Indirects | 196,762 | | |
| | **416,981** | **4,501,561** | |
| 98 Interest During Constr | | | |
| | | **4,501,561** | |
| ***Total*** | | ***4,501,561*** | |

Estimate No.: 33928C
Project No.: 10572-097
Estimate Date: 09/28/2016
Prep/Rev/Appr: BA/GA/MNO

**INDIANAPOLIS POWER & LIGHT**
**GEORGETOWN STATION**
**DEMOLITION ESTIMATE**

Sargent & Lundy

| Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **11.00.00** | | **DEMOLITION** | | | | | | | | | |
| | **11.21.00** | **CIVIL WORK** | | | | | | | | | |
| | | REMOVE FENCING | | 3,150.00 LF | 13,577 | - | | | /MH | | 13,577 |
| | | REMOVE FENCING | FENCE AROUND SWITCHYARD | 1,270.00 LF | 5,474 | - | | | /MH | | 5,474 |
| | | **CIVIL WORK** | | | **19,050** | | | | | | **19,050** |
| | **11.22.00** | **CONCRETE** | | | | | | | | | |
| | | CONCRETE FOUNDATION | TRANSFORMER FOUNDATIONS, 4 EA | 170.00 CY | - | - | | 163 | 88.57 /MH | 14,394 | 14,394 |
| | | CONCRETE FOUNDATION | TRANSFORMER FIRE WALL, 2 EA | 80.00 CY | - | - | | 76 | 88.57 /MH | 6,774 | 6,774 |
| | | CONCRETE FOUNDATION | MISC. EQUIPMENT FOUNDATION | 400.00 CY | - | - | | 382 | 88.57 /MH | 33,869 | 33,869 |
| | | CONCRETE FOUNDATION | WATER WASH MODULE | 22.00 CY | - | - | | 21 | 88.57 /MH | 1,863 | 1,863 |
| | | CONCRETE FOUNDATION | FIN FAN COOLER, 4 EA | 116.00 CY | - | - | | 111 | 88.57 /MH | 9,822 | 9,822 |
| | | CONCRETE FOUNDATION | SERVICE BUILDING | 25.00 CY | - | - | | 24 | 88.57 /MH | 2,117 | 2,117 |
| | | CONCRETE FOUNDATION | NEW WAREHOUSE | 40.00 CY | - | - | | 38 | 88.57 /MH | 3,387 | 3,387 |
| | | CONCRETE FOUNDATION | POWER CONTROL BUILDING (POWEL) | 43.00 CY | - | - | | 41 | 88.57 /MH | 3,641 | 3,641 |
| | | TURBINE PEDESTAL FOUNDATION | CTG FOUNDATIONS, 4 EA | 2,000.00 CY | - | - | | 3,060 | 88.57 /MH | 271,024 | 271,024 |
| | | **CONCRETE** | | | | | | **3,917** | | **346,891** | **346,891** |
| | **11.23.00** | **STEEL** | | | | | | | | | |
| | | STRUCTURAL STEEL | ISO PHASE SUPPORT STRUCTURE | 6.00 TN | - | - | | 5 | 124.87 /MH | 647 | 647 |
| | | STRUCTURAL STEEL | H FRAME / DEAD END STRUCTURE | 24.00 TN | - | - | | 21 | 124.87 /MH | 2,589 | 2,589 |
| | | STRUCTURAL STEEL | BREAKER AND DISCONNECT SWITCH 3 PHASE SUPPORT STRUCTURE | 5.40 TN | - | - | | 5 | 124.87 /MH | 583 | 583 |
| | | STRUCTURAL STEEL | LIGHT POLES | 5.00 TN | - | - | | 4 | 124.87 /MH | 539 | 539 |
| | | STRUCTURAL STEEL | SOUND BARRIER SUPPORT STEEL ALLOWANCE | 28.00 TN | - | - | | 24 | 124.87 /MH | 3,021 | 3,021 |
| | | STRUCTURAL STEEL | H FRAME - SWITCHYARD | 18.00 TN | - | - | | 16 | 124.87 /MH | 1,942 | 1,942 |
| | | STRUCTURAL STEEL | A FRAME - SWITCHYARD | 24.00 TN | - | - | | 21 | 124.87 /MH | 2,589 | 2,589 |
| | | STRUCTURAL STEEL | BREAKER SUPPORT AND DISCONNECT SWITCHES - SWITCHYARD | 5.40 TN | - | - | | 5 | 124.87 /MH | 583 | 583 |
| | | GALLERIES & MISCELLANEOUS STEEL | | 2.00 TN | - | - | | 13 | 124.87 /MH | 1,623 | 1,623 |
| | | **STEEL** | | | | | | **113** | | **14,117** | **14,117** |
| | **11.24.00** | **ARCHITECTURAL** | | | | | | | | | |
| | | SERVICE BUILDING | | 8,100.00 CF | - | - | | 32 | 91.16 /MH | 2,954 | 2,954 |
| | | NEW WAREHOUSE | | 31,860.00 CF | - | - | | 127 | 91.16 /MH | 11,617 | 11,617 |
| | | POWER CONTROL BUILDING (POWEL) | | 10,800.00 CF | - | - | | 43 | 91.16 /MH | 3,938 | 3,938 |
| | | SOUND BARRIER WALL | 140 LF X 16 FT HIGH X 6 IN THK, EACH CTG | 560.00 LF | - | - | | 280 | 91.16 /MH | 25,525 | 25,525 |
| | | **ARCHITECTURAL** | | | | | | **483** | | **44,034** | **44,034** |
| | **11.31.00** | **MECHANICAL EQUIPMENT** | | | | | | | | | |
| | | COMBUSTION TURBINE GENERATOR GE 7EA | 4 EACH | 2,140.00 TN | - | - | | 4,911 | 82.99 /MH | 407,589 | 407,589 |
| | | FUEL GAS HEATER | 4 EACH | 4.00 TN | - | - | | 9 | 82.99 /MH | 762 | 762 |
| | | FUEL GAS SEPARATOR | 1 EACH | 1.00 TN | - | - | | 2 | 82.99 /MH | 190 | 190 |
| | | FUEL GAS SCRUBBER | 4 EACH | 4.00 TN | - | - | | 9 | 82.99 /MH | 762 | 762 |
| | | WATER WASH MODULE | 1 EACH | 2.00 TN | - | - | | 5 | 82.99 /MH | 381 | 381 |
| | | FIN FAN COOLER | 4 EACH | 60.00 TN | - | - | | 138 | 82.99 /MH | 11,428 | 11,428 |
| | | OIL STORAGE | | 1.00 TN | - | - | | 2 | 82.99 /MH | 190 | 190 |
| | | **MECHANICAL EQUIPMENT** | | | | | | **5,077** | | **421,302** | **421,302** |
| | **11.35.00** | **PIPING** | | | | | | | | | |
| | | PIPING | | 16.00 TN | - | - | | 37 | 82.99 /MH | 3,047 | 3,047 |
| | | **PIPING** | | | | | | **37** | | **3,047** | **3,047** |
| | **11.41.00** | **ELECTRICAL EQUIPMENT** | | | | | | | | | |
| | | 80 MVA - 138KV/13.2KV STEP-UP TRANSFORMER, 4 EACH | | 4.00 EA | - | - | | 1,080 | 82.99 /MH | 89,629 | 89,629 |
| | | ISO PHASE BUS 3 PHASE, 2,000AMP | | 400.00 LF | - | - | | 80 | 82.99 /MH | 6,639 | 6,639 |
| | | 5.6 MVA - 13.8KV/4.2KV STATION SERVICE TRANSFORMER | | 1.00 EA | - | - | | 50 | 82.99 /MH | 4,150 | 4,150 |
| | | 138KV DISCONNECT SWITCH 3 PHASE | | 4.00 EA | - | - | | 80 | 82.99 /MH | 6,639 | 6,639 |
| | | 13.8 KV SWITCHGEAR, 7 VERTICAL SECTIONS | | 4.00 LS | - | - | | 72 | 82.99 /MH | 5,975 | 5,975 |
| | | 480 V SWITCHGEAR, 7 VERTICAL SECTIONS | | 7.00 EA | - | - | | 84 | 82.99 /MH | 6,971 | 6,971 |
| | | BREAKER | | 4.00 EA | - | - | | 64 | 82.99 /MH | 5,311 | 5,311 |
| | | 80 MVA CAPACITOR BANK | SWITCHYARD | 4.00 EA | - | - | | 32 | 82.99 /MH | 2,656 | 2,656 |
| | | **ELECTRICAL EQUIPMENT** | | | | | | **1,542** | | **127,971** | **127,971** |
| | **11.42.00** | **RACEWAY, CABLE TRAY, & CONDUIT** | | | | | | | | | |
| | | PRECAST CONCRETE TRENCH | | 650.00 LF | - | - | | 46 | 88.57 /MH | 4,030 | 4,030 |

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**INDIANAPOLIS POWER & LIGHT**
**GEORGETOWN STATION**
**DEMOLITION ESTIMATE**

| Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RACEWAY, CABLE TRAY, & CONDUIT | | | | | | 46 | | 4,030 | 4,030 |
| | 11.43.00 | CABLE | | | | | | | | | |
| | | POWER AND CONTROL CABLE | | 1.00 LS | - | - | | 100 | 82.99 /MH | 8,299 | 8,299 |
| | | TRANSMISSION CABLE, 1168 KCMIL | ALLOWANCE | 1,200.00 LF | - | - | | 48 | 82.99 /MH | 3,984 | 3,984 |
| | | CABLE | | | | | | 148 | | 12,283 | 12,283 |
| | | **DEMOLITION** | | | **19,050** | | | **11,361** | | **973,674** | **992,724** |
| **18.00.00** | | **SCRAP VALUE** | | | | | | | | | |
| | 18.10.00 | MIXED STEEL | | | | | | | | | |
| | | STEEL | COMBUSTION TURBINE GENERATOR GE 7EA, 4 EACH | -2,093.00 TN | - | (228,137) | - | 0 | 79.92 /MH | (17) | (228,154) |
| | | STEEL | FUEL GAS HEATERS | -4.00 TN | - | (436) | - | 0 | 79.92 /MH | 0 | (436) |
| | | STEEL | FUEL GAS SEPARATOR | -1.00 TN | - | (109) | - | 0 | 79.92 /MH | 0 | (109) |
| | | STEEL | FUEL GAS SCRUBBER | -4.00 TN | - | (436) | - | 0 | 79.92 /MH | 0 | (436) |
| | | STEEL | WATER WASH MODULE | -2.00 TN | - | (218) | - | 0 | 79.92 /MH | 0 | (218) |
| | | STEEL | FENCING | -8.00 TN | - | (872) | - | 0 | 79.92 /MH | 0 | (872) |
| | | STEEL | POWER CONTROL BUILDING (POWEL) | -25.00 TN | - | (2,725) | - | 0 | 79.92 /MH | 0 | (2,725) |
| | | STEEL | FIN FAN COOLER, 4 EA | -60.00 TN | - | (6,540) | - | 0 | 79.92 /MH | 0 | (6,540) |
| | | STEEL | 80 MVA - 138KV/13.2KV STEP-UP TRANSFORMER, 4 EACH | -216.00 TN | - | (23,544) | - | 0 | 79.92 /MH | (2) | (23,546) |
| | | STEEL | H FRAME / DEAD END STRUCTURE | -24.00 TN | - | (2,616) | - | 0 | 79.92 /MH | 0 | (2,616) |
| | | STEEL | ISO PHASE SUPPORT STRUCTURE | -6.00 TN | - | (654) | - | 0 | 79.92 /MH | 0 | (654) |
| | | STEEL | BREAKER AND DISCONNECT SWITCH 3 PHASE SUPPORT STRUCTURE | -5.40 TN | - | (589) | - | 0 | 79.92 /MH | 0 | (589) |
| | | STEEL | LIGHT POLES | -5.00 TN | - | (545) | - | 0 | 79.92 /MH | 0 | (545) |
| | | STEEL | SOUND BARRIER SUPPORT STEEL | -28.00 TN | - | (3,052) | - | 0 | 79.92 /MH | 0 | (3,052) |
| | | STEEL | PIPING | -16.00 TN | - | (1,744) | - | 0 | 79.92 /MH | 0 | (1,744) |
| | | STEEL | H FRAME - SWITCHYARD | -18.00 TN | - | (1,962) | - | 0 | 79.92 /MH | 0 | (1,962) |
| | | STEEL | A FRAME - SWITCHYARD | -24.00 TN | - | (2,616) | - | 0 | 79.92 /MH | 0 | (2,616) |
| | | STEEL | BREAKER SUPPORT AND DISCONNECT SWITCHES - SWITCHYARD | -5.40 TN | - | (589) | - | 0 | 79.92 /MH | 0 | (589) |
| | | MIXED STEEL | | | | **(277,383)** | | **0** | | **(20)** | **(277,404)** |
| | 18.30.00 | COPPER | | | | | | | | | |
| | | COPPER | TRANSFORMERS | -92.00 TN | - | (318,964) | - | | 79.92 /MH | | (318,964) |
| | | COPPER | ISO BUS | -6.40 TN | - | (22,189) | - | | 79.92 /MH | | (22,189) |
| | | COPPER | UNDERGROUND POWER & CONTROL WIRE | -1.70 TN | - | (5,894) | - | | 79.92 /MH | | (5,894) |
| | | COPPER | | | | **(347,047)** | | | | | **(347,047)** |
| | 18.50.00 | ALUMINUM | | | | | | | | | |
| | | 3 INCH ALUMINUM BUS | SWITCHYARD | -3,400.00 LB | - | (1,530) | - | | - | - | (1,530) |
| | | ALUMINUM | | | | **(1,530)** | | | | | **(1,530)** |
| | | **SCRAP VALUE** | | | | **(625,960)** | | **0** | | **(20)** | **(625,980)** |
| **21.00.00** | | **CIVIL WORK** | | | | | | | | | |
| | 21.19.00 | DISPOSAL | | | | | | | | | |
| | | DISPOSAL FEE | CONCRETE | 2,896.00 CY | 106,023 | - | | | 89.95 /MH | | 106,023 |
| | | TRANSPORTATION, 40 CY TRUCK | CONCRETE | 2,896.00 CY | 44,019 | - | | | 89.95 /MH | | 44,019 |
| | | DISPOSAL FEE | BUILDING DEBRIS | 188.00 CY | 4,474 | - | | | 89.95 /MH | | 4,474 |
| | | TRANSPORTATION, 40 CY TRUCK | BUILDING DEBRIS | 188.00 CY | 2,858 | - | | | 89.95 /MH | | 2,858 |
| | | DISPOSAL FEE | SOUND BARRIER WALL | 166.00 CY | 3,951 | - | | | 89.95 /MH | | 3,951 |
| | | TRANSPORTATION, 40 CY TRUCK | SOUND BARRIER WALL | 166.00 CY | 2,523 | - | | | 89.95 /MH | | 2,523 |
| | | DISPOSAL FEE | PRECAST CONCRETE TRENCH | 156.00 CY | 5,711 | - | | | 89.95 /MH | | 5,711 |
| | | TRANSPORTATION, 40 CY TRUCK | PRECAST CONCRETE TRENCH | 156.00 CY | 2,371 | - | | | 89.95 /MH | | 2,371 |
| | | DISPOSAL | | | **171,930** | | | | | | **171,930** |
| | 21.20.00 | BACKFILL | | | | | | | | | |
| | | FOUNDATION BACKFILL, IMPORTED MATERIAL FILL | BACKFILL CONCRETE FOUNDATIONS | 1,961.00 CY | - | - | 33,337 | 69 | 192.84 /MH | 13,236 | 46,573 |
| | | TOPSOIL PLACEMENT, 6 IN, INCLUDES SPREADING AND COMPACTION | DISTURBED AREAS | 5,544.00 CY | - | - | 94,248 | 194 | 192.84 /MH | 37,419 | 131,667 |
| | | BACKFILL | | | | | **127,585** | **263** | | **50,654** | **178,239** |
| | 21.47.00 | LANDSCAPING | | | | | | | | | |
| | | SEED AND MULCH | DISTURBED AREAS | 6.90 AC | 12,420 | - | 0 | | 78.54 /MH | | 12,420 |
| | | LANDSCAPING | | | **12,420** | | | | | | **12,420** |

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**DEMOLITION ESTIMATE**

Sargent & Lundy

| Group | Phase | Description | Notes | Quantity | Subcontract Cost | Scrap Value | Material Cost | Man Hours | Crew Rate | Labor Cost | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **CIVIL WORK** | | | **184,350** | | **127,585** | **263** | | **50,654** | **362,589** |
| **81.00.00** | | **OWNER COST** | | | | | | | | | |
| | 81.99.00 | OWNER COST, MISCELLANEOUS | | | | | | | | | |
| | | IPL STAFF - ENGINEER, 1 PERSON | $120/HR FOR 12 MONTHS | 1.00 LS | 250,560 | - | | | /MH | | 250,560 |
| | | OWNER COST, MISCELLANEOUS | | | 250,560 | | | | | | 250,560 |
| | | **OWNER COST** | | | **250,560** | | | | | | **250,560** |

# EXHIBIT 6

# Average Scrap Value Calculation

IPL
3 MONTH AVERAGE SCRAP PRICES

May, 2016

| | | | | | |
|---|---|---|---|---|---|
| Scrap Prices Zone 4 | | | | | |
| Sourced - Scrap Metals Marketwatch (www.americanrecycler.com) | | | | | |
| Date | **Zone 4** | **Zone 4** | **Zone 4** | **Zone 4** | |
| | **#1 & 2 Mixed Steel **** | **#1 Copper** | **Aluminum Cans *** | **Stainless Steel** | |
| | **$ / Gross Ton** | **$/ Pound** | **$/ Pound** | **$/ Pound** | |
| 01-Apr-16 | 174 | 1.94 | 0.57 | 0.41 | |
| 01-May-16 | 210 | 2.01 | 0.57 | 0.44 | |
| 01-Jun-16 | 245 | 1.91 | 0.59 | 0.45 | |
| 3 Month AVG $ | 209.67 | 1.95 | 0.58 | 0.43 | |
| Conv to $/US tons | 187 $/TN | 3907 $/TN | 1153 $/TN | 867 $/TN | |
| Shipping & Processing - deduct | 78 $/TN | 440 $/TN | 260 $/TN | 200 $/TN | |
| **Net Value to Utility** | **109 $/TN** | **3467 $/TN** | **893 $/TN** | **667 $/TN** | |
| Profit, Shipping & Processing by scrap dealer | | | | | |
| #1 & 2 Mixed Steel | 0.04 $/lb | 78 $/TN | | | |
| #1 Copper | 0.22 $/lb | 440 $/TN | | | |
| Aluminum Cans | 0.13 $/lb | 260 $/TN | | | |
| Stainless Steel | 0.10 $/lb | 200 $/TN | | | |
| Note: Gross Ton = 2,240 pounds, US tons = 2,000 pounds | | | | | |