



ILD, Inc.

Projects and References

ILD has been providing engineering services to the commercial nuclear and fossil power industry for over 25 years. Our current customer list includes Exelon, Entergy, Dominion, Constellation, FENOC, TVA, General Electric, as well as Columbia Generating Station (formerly Hanford II in Washington State). ILD has an approved 10CFR50 Appendix B Quality Assurance Program, which was successfully audited by GE-Hitachi Nuclear Energy in July 2007, to supply Safety Related and Non-Safety Related engineering and testing services.

The following is a list of our current and recent projects, including a brief technical description of our scope and a client contact:

Nine Mile Point Unit 2 – Extended Power Uprate Technical Support

ILD is supporting the NMP Unit 2 EPU by performing engineering and technical reviews of the EPU related BOP, NSSS, and I&C engineering products. ILD personnel are reviewing engineering documents to confirm the acceptability of the plant systems for the proposed uprate.

Contact Ms. Theresa Darling (315) 349-2221

Entergy – River Bend Station – Project Managers Chemical Decontamination, Generator Rewind

ILD personnel are providing Project Management services including scope, schedule, and budget control for major outage scope, including Generator Rewind and Reactor System Chemical Decontamination.

Contact Mr. Carl Walker (504) 635- 5090

Cooper Appendix K Power Uprate BOP Engineering

ILD is performing all BOP engineering tasks associated with an on-going Appendix K Power Uprate Project for Cooper Nuclear Station. ILD is working with GE Nuclear Energy and NPPD to complete this task by 6/1/2007.

Contact Mr. Michael Boyce (402) 825-5100

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Energy Northwest - Columbia Generating Station – Project Managers Reactor Maintenance Services

ILD personnel are providing Project Management services including scope, schedule, and budget control for major reactor maintenance services, including Reactor recirculation motor replacement, reactor system chemical decontamination, and NobleChem implementation.

Contact Mr. Rolly Fuller (509) 377- 4148

Exelon – Fleet Project Engineer BWR Reactor Recirculation Pump Adjustable Speed Drive Modifications

ILD personnel are providing Lead Engineering services to develop engineering and implement the reactor recirculation pump ASD modification throughout the Exelon BWR fleet.

Contact Mr. Amir Shahkarami (630) 657-3800

Davis Besse LP Turbine Rotor PTC 6(alt) Performance Testing

ILD had the lead on establishing a testing methodology, which was used to ensure that the turbine warranties were met. Additionally, we participated in performance of the testing, as well as reconciliation of the results.

Contact Mr. Glenn Mitchell (330) 384-5027

Nine Mile Point Unit 2 (GE) – Extended Power Uprate BOP Third Party Review

ILD recently completed a third party review of the balance of plant engineering assessments performed to allow an extended power uprate of the unit. ILD reviewed all of the engineering documents to confirm the acceptability of the BOP systems for the proposed uprate. ILD performed several independent calculations to fill gaps identified in the existing design bases analyses.

Contact Mr. Garold Carlisle (GE) (910) 547-2676

Nine Mile Point Unit 2 - Balance of Plant Optimization

ILD developed the design analysis and associated design package components to enable Nine Mile Point Unit 2 to optimize their secondary cycle and increase unit electrical output (In progress)

Contact Mr. Brian Shanahan (315) 349-4807

Millstone Unit 3 - Balance of Plant Optimization

ILD developed the design analysis and associated design package components to enable Millstone Unit 2 to optimize their secondary cycle and increase unit electrical output.

Contact Mr. John Gibson (800) 269-9994 ext 4431

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Exelon – Quad Cities Steam Dryer Damage Assessment Root Cause

ILD personnel provided consulting services to assist in determining the root cause for the steam dryer cracking resulting from acoustic loading.

Contact Mr. Amir Shahkarami (630) 657-3800

Exelon – Quad Cities Main Steam Line Vibration Extended Power Uprate Issue

ILD personnel provided Lead Project Engineer, Lead Design Engineer, and overall project management for this project.

Contact Mr. Amir Shahkarami (630) 657-3800

Entergy - Waterford 3 – Extended Power Uprate BOP Third Party Review

ILD recently completed a third party review of the balance of plant engineering assessments performed to allow an 8% uprate of the unit. ILD reviewed all of the engineering documents to confirm the acceptability of the BOP systems for the proposed uprate. ILD performed several independent calculations to fill gaps identified in the existing design bases analyses.

Contact Mr. Brian Matthews (504) 739-6252

Entergy – River Bend Station – Dry Fuel Storage Project Support

ILD provided expertise in completing critical civil/structural engineering documents associated with the new Dry Fuel Storage facility at River Bend.

Contact Mr. Allan Soni (225) 381-4840

Ginna Uprate Feasibility Study Review

ILD performed a review of the Ginna uprate feasibility study performed by Westinghouse Nuclear (BNFL), Stone and Webster, and Siemens-Westinghouse Power Corp. All assumptions used in the BOP sections of the feasibility study were verified.

Contact Mr. Herb VanHoute (585) 771-3833

Ginna HP Turbine Rotor Replacement Project – As-found heat balance and thermal performance evaluation

As part of the HP rotor replacement project (associated with the 17.6% Power Uprate), ILD established the baseline thermal performance of the unit, including the generation losses associated with each individual component, with emphasis on main condenser, feedwater heaters and HP/LP Turbine sections. ILD had the lead on establishing a testing methodology, which was used to ensure that the turbine warranties were met. Additionally, we served as interface between the customer and turbine supplier (SWPC) to ensure that all contract related testing issues are resolved to the ultimate satisfaction of Constellation.

Contact Mr. Mark Finley (585) 771-3008

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Ginna 17.6% Extended Power Uprate – Executive Oversight Committee

Constellation has selected Mr. Little to serve on the executive oversight committee for the Ginna Power Uprate. He will be involved on an on-going basis through implementation and testing in November 2006.

Contact Mr. Jack Kramer (410) 897-5037

Cooper Uprate Feasibility Study

ILD performed an Uprate Feasibility study for Cooper Nuclear Station. The study determined the target uprate power level based on input from various site organizations. The results determined the equipment modifications necessary to achieve various power uprated levels and established a cost versus uprated power (MWe) curve that provided the basis for the uprate target value.

Contact Mr. Michael Boyce (402) 825-5100

Calvert Cliffs Appendix K Uprate BOP Review

ILD provided consulting services to assist in owner's review of the Balance of Plant uprate assessment performed for a proposed Appendix K uprate.

Contact Mr. Jack Kramer (410) 897-5037

Calvert Cliffs Unit 1 ASME PTC 6 (Alt) for LP Rotor Replacement.

ILD had the lead on establishing a testing methodology, which was used to ensure that the turbine warranties were met. Additionally, we served as interface between the customer and turbine supplier (GE) to ensure that all contract related testing issues are resolved to the ultimate satisfaction of Constellation.

Contact Mr. Jack Kramer (410) 897-5037

Calvert Cliffs Unit 1 Turbine Rotor Replacement Project – As-found heat balance and thermal performance evaluation

As part of the rotor replacement project, ILD established the baseline thermal performance of Unit 1, including the generation losses associated with each individual component, with emphasis on main condenser, feedwater heaters and HP/LP Turbine sections.

Contact Mr. Jack Kramer (410) 897-5037

Palo Verde Unit 2 ASME PTC 6 (Alt) for LP Rotor Replacement, Steam Generator Replacement, 3% Power Uprate and transition from partial to full arc turbine control

ILD had the lead on establishing a testing methodology, which was used to ensure that the warranties of the various equipment OEMs were met, and that overall plant performance was in accordance with customer's expectations.

Contact Mr. Ken Porter (623) 393-5875

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Exelon / Handley Fossil Generating Station / Dallas, Texas ASME PTC 6 (Alt) Performance Test

ILD developed an ASME PTC 6 (Alt) test for 2 fossil-fired units at Exelon Handley near Dallas, Texas. These are natural gas fired steam electric stations of approximately 400 Mwe. Our responsibilities included preparing the draft procedure, the cycle isolation methodology, and the uncertainty analysis, in accordance with ASME PTC 19.1 and PTC 6. We then finalized the test procedure, resolving all comments, and performed 20 tests at 8 different load points on each of the 2 units. ILD then prepared a test report that was used to determine fuel usage reimbursement by the local power authority for periods when the units were operated on “spinning reserve” at minimum load.

Contact Mr. Stephen Schroeder (817) 446-2505

Nine Mile Point Unit 1 Turbine Rotor Replacement Project – Bid Specification Development/ASME PTC-6 Testing Consultant

ILD developed the technical bid specification which was used by Constellation Energy / Nine Mile Point Unit 1 to determine the vendor of choice for its LP Turbine rotor replacement project. ILD developed the LP rotor PTC-6 (Alt) test for Unit 1.

Contact Mr. George McDonough (225) 328-9213

Millstone Unit 3 LP Rotor replacement project – Technical bid assessment consultant

ILD had responsibility for providing technical input as a member of the LP Rotor Replacement Team. ILD personnel assisted in preparation of a bid specification for the proposed LP rotor replacement at Unit 3. We also reviewed bid proposal packages from all 3 vendors, and attended all 3 bid presentations. ILD assisted Dominion personnel in evaluating all technical issues regarding the prospective replacement rotors, including the net present value of the performance improvements for each offering under actual operating conditions (corrected for actual back-pressure, throttle flow, etc.).

Contact Mr. Dave Dakers (860) 447-1791 ext 6135

Millstone Unit 2 PTC 6 (Alt) test development for LP Rotor Replacement

ILD developed the LP Rotor ASME PTC 6 (Alt) test for Dominion / Millstone U2. Our responsibilities included preparing the draft procedure, the cycle isolation methodology, and the uncertainty analysis, in accordance with ASME PTC 19.1 and PTC 6. We then resolved all comments, from both the utility and GE Power Generation, and prepared the final document to be presented to SORC.

Contact Mr. John Gibson (800) 269-9994 ext 4431

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River Bend Station Turbine Rotor Replacement

ILD was involved in upgrade of the River Bend turbine in the following ways:

1. LP Rotor bid specification preparation
2. LP Rotor performance warranty testing methodology
3. Advanced Design Steam Path (ADSP) HP Rotor performance warranty testing methodology
4. Post-Modification Testing for ADSP and the transition from full to partial arc admission (2 admission)
5. Increasing reactor power by 5%, as discussed below, to exploit the newly installed turbine and control valve margin.

Contact Mr. Robert Lundholm (225) 381-4439

River Bend Station 5% On-line Power Uprate

ILD had responsibility for providing the lead mechanical design engineering staff. We also performed design margin reviews in all engineering disciplines and participated in issue resolution throughout the project. ILD also had responsibility for implementation, including Power Ascension Test Plan development and performance. Mr. Little served as Test Engineer during the power ascension.

Contact Mr. Tim Gates (225) 381-4866

River Bend Station Appendix K Power Uprate

ILD had responsibility for providing the lead mechanical design engineering staff. We also performed design margin reviews in all engineering disciplines and participated in issue resolution throughout the project. ILD also had responsibility for implementation, including Power Ascension Test Plan development and performance. ILD developed the Licensed Operator Training Module for the Appendix K Uprate, and performed the training during Operator Requalification. Mr. Little served as Test Engineer during the power ascension.

Contact Mr. Bob Lundholm (225) 381-4439

Waterford 3 Appendix K Power Uprate

ILD had responsibility for providing the mechanical design engineering staff to accomplish Appendix K Uprate reviews of many of the BOP Systems, including the turbine, feedwater heaters, condensate and feedwater systems, etc. We also performed design margin reviews in several engineering disciplines and participated in issue resolution throughout the project.

Contact Mr. Timothy Brennan (504) 739-6224