

Astoria Energy II LLC Combined Cycle Facility



2011 Operating Plan

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Project Technical Data



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The plant is a Combined Cycle 2 X 1 power block located in Astoria (Queens) New York. The plant consists of a 2 X 1 combined cycle configuration utilizing (2) GE 7FA combustion turbine and (1) GE D-11 steam turbine. The combustion turbines utilize GE hydrogen generators producing 165 MW nominal rating at 21 KV. Both generators connect to Hydaui step up transformer sending power out to a 345 KV NYPA transmission system. The steam turbine generator is 300,000 KVA hydrogen cooled unit producing at 21 KV. It too is connected to a step-up transformer to 345KV on the NYPA transmission system.

QUICK FACTS:

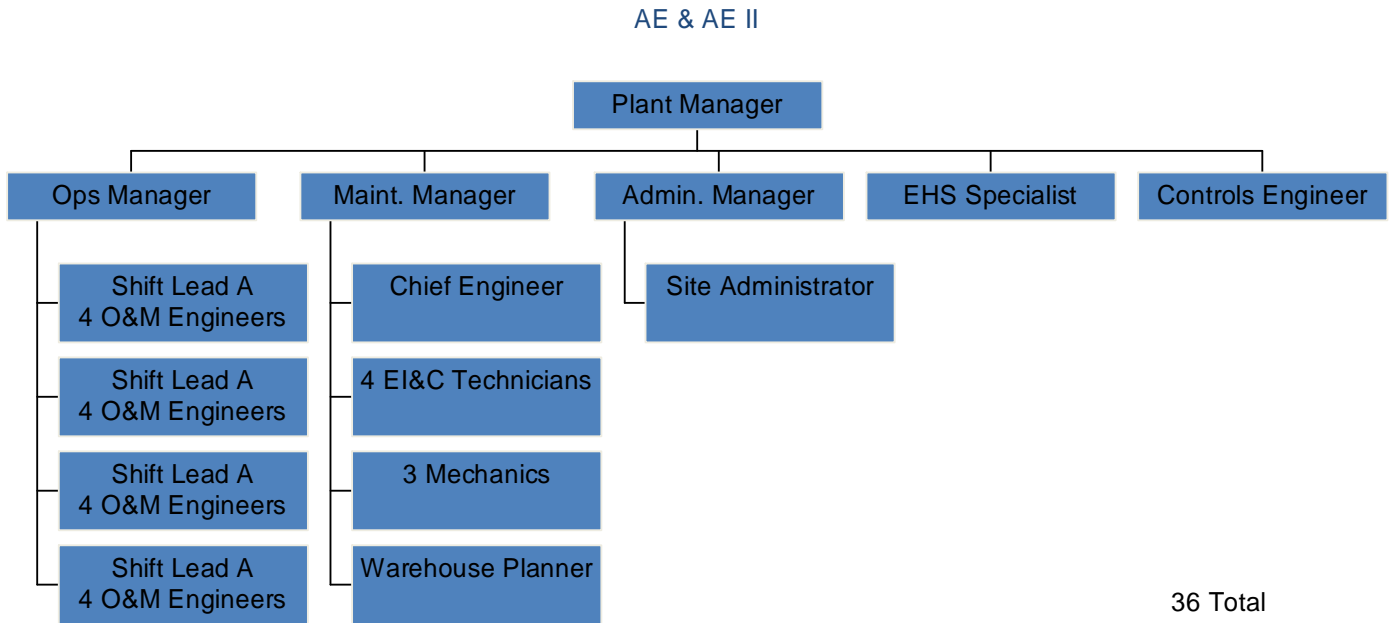
In-Service Date	7/1/11
Fuel-Primary	Natural Gas
Fuel-Secondary	No. 2 Fuel Oil
Resource Type	Base Load
Electric Customer	NYPA

ASTORIA ENERGY

Mission Statement:

The mission of Astoria Energy Combined Cycle Facility is to provide our customers with a reliable source of clean energy. We will meet our economic goals by empowering our employees to operate the facility safely, reliably, and efficiently while being good stewards to the environment and our neighbors.

Astoria Energy II Operations and Maintenance Staff Organization



Safety:

Employee Safety will continue to be the number one priority at Astoria Energy II. The goal for year 2011 is to complete the entire year with no reportable or lost time accidents. We will achieve this goal by promoting employee involvement at all levels to create a sense of ownership by all. The challenge of operating a combined cycle fired facility, presents challenges and opportunities for the staff. Other safety goals for the year are as follows:

- Conduct monthly safety meetings with all employees.
- Perform and Annual Review of the LOTO program.
- Perform review of Safety Manual with Safety Committee.
- Develop JSA for all tasks performed at the facility.
- Perform a new noise survey once Astoria Energy II LLC goes commercial.
- Convene the safety committee monthly.
- Complete monthly safety audits. Enter audit findings into EAM and address all audit findings in a timely manner.
- Recognize safe workers by using the Safety Incentive Program as well as innovative programs such as a monthly safety improvement work day.
- Report all near misses, first aid, and OSHA recordable incidents and distribute the other plant incidents to all employees so we can learn from them.
- Safety committee certification and training will be documented.
- A safety awards breakfast will be held in March to recognize employees for their efforts in maintaining a safe work place in 2011.

In order to meet the Suez Health & Safety Charter we plan to accomplish the following in 2011

Health & Safety Charter Action Plan

Item No.	Description	Goal
01	Plant Safety Audit	Have external safety audit performed by 3 rd party and complete all audit findings.
02	H&S objectives	Have all Astoria GDF Suez employees sign off on the H&S objectives.
03	Training	Ensure all employees received the required OSHA.
04	Analysis of Incidents	Report and perform and analysis of all safety near misses and incidents.
05	Engage Contractors in Suez H&S standards	Ensure all contractors receive the orientation before working on site.
06	Develop H&S partnership	Develop a partnership with Construction to prevent safety incidents from occurring during startup & commissioning
07	H&S Policy	Post H&S policy signed by all employees by 1 st Qtr 2010
08	Communication on Occupational H&S	Provide all Astoria Energy employees with near miss reports and incident reports from other SEGNA plants at monthly safety meetings.

Environmental:

Environmental compliance is a high priority at Astoria Energy II. The goal for 2011 will be to operate the facility at maximum output while allowing zero tolerance for environmental violations. We will research opportunities to reduce emissions through better combustion controls and fuel management.

In order to maintain zero tolerance for regulatory violations and a level of excellence that will distinguish us as a leader in environmental compliance, Astoria Energy has established the following goals and targets for 2011:

- Update the current CEMS QA/QC plan to reflect changes resulting from Astoria Energy II LLC addition.
- Start providing EMS training to all of our personnel per corporate established guidelines.
- Participate in monthly companywide environmental conference calls.
- Complete all requirements outlined in the Astoria Energy Combined Cycle Facility EMS Plan and obtain Platinum status in EMS.
- Conduct one external and one internal annual Environmental Compliance audit in 4th Qtr 2011.
- Conduct Quarterly EMS / Environmental Steering Committee meetings

- Complete all environmental audit findings will be completed or corrections will be scheduled within three months of the completion of the audit including outside agency audits. The Environmental Steering Committee will review audit findings at the quarterly meetings and provide a status report on all outstanding audit items.
- Complete 2011 corporate online ESA audit by established corporate deadline.
- Investigate joining the State Program or equivalent of the EPA Performance Track Program to show that the Astoria Energy Combined Cycle Plant is an environmental steward.

Production / Operation:

Astoria Energy will maintain high levels of availability and reliability by empowering its employees to efficiently operate and maintain the facility. Efficiency of the plant will be tracked in order respond more quickly to equipment malfunctions which can lead to significantly increased costs for the plant.

Fuel Plan:

Astoria Energy II LLC is has a Power Purchase Agreement with NYPA in which NYPA pays for all the fuel.

Major Projects:

The major project in 2011 for Astoria Energy II is startup and commission of the facility.

Regulatory and Customer:

Monitor and insure compliance with all applicable rules - e.g. NYISO rule making, Con Ed OFOs, Con Ed min oil

Continue to participate as an active NYISO and IPPNY member.

Employee Development / Staffing:

The Astoria Energy Combined Cycle facility will be has added all necessary staffing to run both the AEI and AEII facilities. The plant is fully staffed with all employees.

Employee development will be the cornerstone to an aggressive training program in 2011. Training will be directed at improving teamwork, communications, core job knowledge, and computer literacy skills for all employees.

- Provide STOP for Supervisors training for new employees.
- Arc Flash Safety Training for all employees.
- Monthly safety meetings will be held for all employees on annual required training.

- Provide Team Building training onsite with all plant personnel.
- Fork Lift training for all Operators and Technicians.
- O&M Engineer II's will cross-train in the control room.
- The Environmental Coordinator will attend an Environmental seminar.
- The Safety Coordinator will attend an OSHA compliance update seminar.
- All employees will receive training on CPR and Basic First Aid.
- The Plant Technician will receive training on PLC's, Intranets and network stations.
- All Shift Leads will receive Leadership training that focuses on areas needing improvement on an individual level.
- Maintenance personnel will attend vendor sponsored training and workshops to keep in tune with modern day technology.
- Roundtable meetings will be held on a quarterly basis for all Managers with discussions & training on topics such as, ethics, disabilities, workplace violence, sexual harassment, and multiculturalism.
- The Coast Guard Coordinator will attend FSO training.
- Increase the number of personnel qualified as Person in Charge for offloading fuel oil. Currently the plant has 3 employees qualified to offload fuel oil.
- The EHS specialist should obtain all Certificate of Fitness qualifications required for the plant from the NYC fire department.