


United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of: Entergy Nuclear Operations, Inc. (Indian Point Nuclear Generating Units 2 and 3)	
	ASLBP #: 07-858-03-LR-BD01
	Docket #: 05000247   05000286
	Exhibit #: NYS000094-00-BD01
	Admitted: 10/15/2012
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NYS000094

Submitted: December 14, 2011



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## **Empire Generating Project Timeline** **As of May 19, 2010**

### **November 2009:**

- Rensselaer office hours held
- Complaint log distributed to Citizens Committee
- Complete enclosure of the turbine building
- Continue piping, electrical power and control wiring
- Start Heat Recovery Steam Generator (HRSG) stack erection
- Initial system checkouts and turnovers for plant support systems

### **December 2009:**

- Rensselaer office hours held
- Complaint log distributed to Citizens Committee
- Complete gray water tie at Albany County Sewer District (ACSD) plant
- Start commissioning of water treatment systems
- Continue critical pipe and process pipe installation
- Begin back feed of power to portions of the power block
- Continue electrical and power wiring
- Continue HRSG stack erection
- Complete tie in of the gas line from the Tennessee Gas main line

### **January 2010:**

- Rensselaer office hours held
- Complaint log distributed to Citizens Committee

- Citizens Committee held
- Direct newsletter mailed to targeted communities and stakeholders
- Copy of newsletter posted on Website
- Completion of majority of critical pipe and process piping
- Continue electrical power and control wiring
- Electrical control wiring checkout
- Check out and commissioning of the gas supply systems
- Hydro Test HRSGs
- Complete commissioning of the water treatment equipment

### **February 2010:**

- Rensselaer office hours held
- Complaint log distributed to Citizens Committee
- Begin complete control and instrument checks and calibrations
- Commission primary HRSG and Gas Turbine support systems
- Perform control loop checks on all major systems
- Start preparing boiler piping for steam blows

### **March 2010:**

- Rensselaer office hours held
- Complaint log distributed to Citizens Committee

### **April 2010:**

- Rensselaer office hours held
- Complaint log distributed to Citizens Committee
- Citizens Committee held
- Direct newsletter mailed to targeted communities and stakeholders
- Copy of newsletter posted on Website
- Continue sub system checkout and commissioning

### **May 2010:**

- Rensselaer office hours held
- Complaint log distributed to Citizens Committee
- Continue sub system checkout and commissioning
- Tune water treatment systems to make boiler quality make up water
- First fire on Combustion Turbine (CT) # 11
- Continue ancillary equipment check out and commissioning
- Synchronize CTG # 11 to power grid
- Perform initial control testing

### **June 2010:**

- Rensselaer office hours held
- Complaint log distributed to Citizens Committee
- First fire CT # 12 and repeat checkout process and generator synchronization before the end of the month
- Complete HRSG #11 and #12 and combined steam blows
- Restore steam piping systems after steam blows

### **July 2010:**

- Rensselaer office hours held
- Complaint log distributed to Citizens Committee
- Citizens Committee held
- Direct newsletter mailed to targeted communities and stakeholders
- Copy of newsletter posted on Website
- Restore steam piping systems after steam blows
- Perform controls and emissions tuning on the Combustion Turbine Generator (CTG) 11 and 12
- Install emission control catalyst in HRSG 11 and 12

### **August 2010:**

- Rensselaer office hours held
- Complaint log distributed to Citizens Committee

- Load testing on CTG 11 and 12
- Tune ammonia control and injection systems
- Unit run for steam quality
- Initial roll up and synchronization of the steam turbine
- Duct burner firing testing and tuning
- Perform Continuous Emissions Monitoring System (CEMS) testing and certification
- On line emission tuning

**September 2010:**

- Plant in Commercial Operation