

# MONTHLY OPERATIONS SUMMARY

AUGUST 1981

At the beginning of the reporting period, the Oyster Creek Nuclear Generating Station was operating at 370 MWe limited by degraded condenser vacuum. The Drywell Unidentified Leak Rate was gradually increasing and being closely monitored. Between August 1 and August 14, load fluctuated between 330 MWe and 410 MWe dependent upon intake temperature and its effect upon condenser vacuum. On August 11, the plant was released from system to shut down to correct the Drywell Unidentified Leak Rate and Condenser Vacuum problems. The plant was shut down and in the cold condition on August 15. Startup was delayed into the next reporting period by a tube failure in the Shutdown Cooling System and depends upon the results of tests currently in progress.

The following Reportable Occurrences occurred or were identified during the month of August:

- |            |   |
|------------|---|
| R.O. 81-38 | was identified on August 28 when two out of three Shutdown Cooling heat exchangers were out of service due to tube failures.  |
| R.O. 81-39 | was identified on August 14 when West Reactor Building Closed Cooling Water heat exchanger tube leakage had resulted in an unmonitored release of radioactivity to the environment. |
| R.O. 81-40 | was identified on August 16 when the setpoints for Electromatic Relief Valves B & D were found to be less conservative than Technical Specification requirements.                   |
| R.O. 81-41 | occurred on August 24 when "A" Stack Gas Sample Pump tripped.   |
| R.O. 81-42 | occurred on August 28 when "B" Stack Gas Sample Pump tripped.   |
| R.O. 81-43 | was identified on August 29 when it was postulated that there was no stack gas monitoring in effect due to leakage in the sample system.  |
| R.O. 81-44 | occurred on August 25 when SBGTS I Fan 1-8 bearings failed.   |

## OPERATING STATUS

UNIT NAME...OYSTER CREEK

DOCKET NUMBER...50-219

UTILITY DATA PREPARED BY...J.B. SKLAR 609-693-6013

REPORTING PERIOD... August 1981

LICENSED THERMAL POWER(MWT)...1930

NAMEPLATE RATING(GROSS MWE)...650

DESIGN ELECTRICAL RATING(NET MWE)...650

MAXIMUM DEPENDABLE CAPACITY(GROSS MWE)...650

MAXIMUM DEPENDABLE CAPACITY(NET MWE)...620

IF CHANGES OCCUR IN CAPACITY RATING SINCE LAST REPORT. GIVE REASON...  
NONE

POWER LEVEL TO WHICH RESTRICTED, IF ANY(NET MWE)... NO RESTRICTION

REASON FOR RESTRICTION, IF ANY...  
NO RESTRICTION

	MONTH	YEAR	CUMULATIVE
HOURS IN PERIOD	744.0	5831.0	102479.0
HOURS RX CRITICAL	341.6	4308.7	76739.3
RX RESERVE SHUTDOWN HRS.	0.0	0.0	468.2
HRS. GEN ON LINE	337.7	4088.6	75057.5
UT RESERVE SHUTDOWN HRS	0.0	0.0	0.0
GROSS THERMAL ENERGY	414700.0	6411140.0	126557620.5
GROSS ELEC ENERGY	119610.0	2058140.0	42986385.0
NET ELEC ENERGY	111030.0	1962070.0	41400728.0
UT SERVICE FACTOR	45.4	70.1	73.2
UT AVAILABILITY FACTOR	45.4	70.1	73.2
UT CAPACITY FACTOR MDC	24.1	54.3	46.6
UT CAPACITY FACTOR DER	23.0	51.8	62.2
FORCED OUTAGE FACTOR	54.6	15.3	7.1

THE NEXT SCHEDULED OUTAGE IS TO BEGIN ON FEBRUARY 12, 1982

# AVERAGE DAILY POWER LEVEL

DOCKET #..... 50-219  
 UNIT..... O. C. #1  
 REPORT DATE... September 16, 1981  
 COMPILED BY... J.B. SKLAR  
 TELEPHONE..... 609-693-6013

MONTH August 1981

DAY	MW	DAY	MW
1.	349.	17.	0.
2.	730.	18.	0.
3.	320.	19.	0.
4.	311.	20.	0.
5.	313.	21.	0.
6.	324.	22.	0.
7.	328.	23.	0.
8.	322.	24.	0.
9.	325.	25.	0.
10.	344.	26.	0.
11.	342.	27.	0.
12.	349.	28.	0.
13.	382.	29.	0.
14.	362.	30.	0.
15.	4.	31.	0.
16.	0.		

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August 1981

DOCKET NO. 50-219  
 UNIT NAME Oyster Creek  
 DATE September 16, 1981  
 COMPLETED BY J.B. Sklar  
 TELEPHONE 609-693-6013

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
18	8-15-81	F	406.5	B	1	N/A	ZZ	ZZZZZ	Shutdown to correct an increasing Drywell Unidentified Leak Rate and Condenser Vacuum problems.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance of Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)

<sup>3</sup>  
 Method:  
 Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

<sup>4</sup>  
 Exhibit G - Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) File (NUREG-  
 0161)

<sup>5</sup>  
 Exhibit I - Component

AUGUST SUMMARY OF QASL MECHANICAL MAINTENANCE

<u>EQUIPMENT</u>	<u>MALFUNCTION</u>	<u>CORRECTIVE ACTION</u>
Outside Reactor Building Airlock Door	Operating linkage bent	Linkage was repaired for satisfactory door operation
Fire Hose Station Valve V-9-102	Valve leaking through	Removed valve, disassembled and cleaned valve seat.
Position indicator for Fire Valve V-9-150	Indicator does not show valve open or closed	Adjusted indicator to show proper position
Pond Pump	Water leaking from packing gland	Tightened packing gland to stop leak
CRD 26-19 Accumulator	Nitrogen leak around charging connection cap	Installed new cap.
Fire protection system	Deluge System 4B-Gasket on downstream side of V-9-158 leaking	Replaced Gasket.
Watertight compartment door S.E. -19 el.	One dog frozen on watertight door	Disassembled dogs, cleaned, lubricated, and reassembled.
1-2 diesel generator lube oil recirc pump	Pump running noisy	Readjusted coupling
"C" Shutdown Cooling Pump	Pipe plug in pump casing leaking	Replaced pipe plug.
Refueling Bridge	Air Line Take-Up reel (CAB mounted) needs adjustment	Inspected reel and adjusted tension as necessary
Torus vent valve V-28-18	Valve operator diaphragm leaking	Replaced with new diaphragm
Exhaust fan - augmented off gas building	Belts slipping on sheaves	Replaced belts and adjusted tension.

## AUGUST SUMMARY OF QASL MECHANICAL MAINTENANCE

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<u>EQUIPMENT</u>	<u>MALFUNCTION</u>	<u>CORRECTIVE ACTION</u>
"B" emergency service water-pump	Discharge flange leaking	Tightened flange bolts
CRD Accumulator 46-35	Leakage around accumulator	Replaced all o-rings on piston and cylinder ends.
West RBCW Heat Exchanger	Tubes leaking	Twelve tubes plugged and reinspected. Replaced anodes.
East RBCW Heat Exchanger	Tubes leaking	Twelve tubes plugged and reinspected. Replaced anodes.
"B" Stack Gas Sample Pump	Drawing excessive amps	Disassembled, cleaned and lubricated internals. Reassembled and returned to service.
CRD Accumulator 14-23	V-111 valve body turns in valve block	Tightened valve body back into valve block
Isolation condenser drain valve V-14-37	Packing leaks	Added two rings of packing.
1-2 RBCW Heat Exchanger	3/4" drain nipple on service water side is broken off	Replaced nipple
CRD Accumulator 46-31	V-106 valve leaking past seat when valve is closed	Disassembled, lapped seat, replaced ball and packing. Reassembled valve.
Shutdown cooling isolation valve V-17-19	Leaking from packing gland	Replaced 9 rings of packing.

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AUGUST SUMMARY OF GASL MECHANICAL MAINTENANCE

COMPONENT

MALFUNCTION

CORRECTIVE ACTION

CRD accumulator 18-43

Leakage around accumulator  
cylinder

Replaced all o-rings on piston and  
cylinder ends.

Isolation condenser  
vent valves V-14-1,  
2, 3, 4, 5, 6, 7, 8, 19, 20

Packing leaks

Repacked all valves



AUGUST SUMMARY OF QASL INSTRUMENT MAINTENANCE

<u>EQUIPMENT</u>	<u>MALFUNCTION</u>	<u>CORRECTIVE ACTION</u>
Traversing in core #3 Probe Calibration System	Defective #3 Detector	Maintenance and Calibration (replaced detector)
Steam Flow Recorder	Red pen sticks frequently	Maintenance and Calibration (on recorder)
Intermediate range monitor channel #17	Front panel discrepancy	Maintenance and Calibration (burnished relay contacts)
Area Radiation monitor (environs monitor #1)	Failed Downscale	Maintenance and Calibration (replaced sensor)
Hydrogen Monitor "B" Unit Auxiliary off gas building	No flow indication	Maintenance and Calibration (moisture in flow element)
Main Steam Line Radiation Monitor Channel #1	Front panel discrepancy	Maintenance and Calibration (recorder calibration)
Traversing in Core Probe #1	Defective #1 detector	Maintenance and Calibration (replaced detector)
Source Range Monitor Channel #23	Upscale Period Meter #1	Maintenance and Calibration
Intermediate Range Monitor Channel #16	Front panel discrepancy on recorder	Calibration of recorder
IRM surveillance discrepancy CH 11 and 16	No rod block dwn. scale lite	Exact set point adj. per vendors manual and procedures. Tested satisfactory.
A.O.G.	H2 detector reading upscale	Repl. sensor and calibrated.



AUGUST SUMMARY OF QASL INSTRUMENT MAINTENANCE

(cont'd)

EQUIPMENT

MALFUNCTION

CORRECTIVE ACTION

Drywell/Torus 02 Analyzer Recorder	Sticking	Cleaned bushings and brush assembly performed calibration
A.O.G. Chart Recorder	Not taking up	Chart paper installed incorrectly Replaced ink cartridges
1-2 Fire Diesel	Fire Pump Cycling	Switch is set properly at 85 psi System is operating at/or around this pressure.
Process Rad Monitoring MSL CH. 1 and 2	Surveillance discrepancies on alarm set-points	Alarm set-points found to be within tolerance per procedure
I.R.M. 14	Rod Block malfunction	Cleaned relay contacts. Performed bench calibration. Detector scheduled for replacement.
Control rod drive position indication 10-23	Defective probe on scram position	Replace position probe
I.R.M. monitoring channels 15 and 17	Not indicating properly	Replaced pre-amp on ch. 17 performed bench calibration on both 15 and 17
Control rod drive position indication 34-11	Defective probe on position 18	Replaced position probe
MSL break sensor RE22F	Dirty snubber	Replaced snubber during routine surveillance of RE22F.
Condensate transfer pump 1-2	Broken Gauge	Replaced broken gauge
Drywell Humidity Recorder	Does not rotate at proper speed	Replaced chart drive motor

AUGUST SUMMARY OF QASL INSTRUMENT MAINTENANCE

(cont'd)

<u>EQUIPMENT</u>	<u>MALFUNCTION</u>	<u>CORRECTIVE ACTION</u>
Event Recorder	Chart paper not taking up	Paper jammed. Reloaded chart and tested satisfactory
#1 Drywell Air Temp Recorder	Chart paper will not drive	Re-installed drive chain and adjusted idler wheel
Fuel pool ARM RO-15C-10	Spiking	Replaced defective sensor and converter
I.R.M. CH. 15	Inoperable: produces half-scam when taken out of by-pass	Replaced defective dual trip unit
I.R.M. CH. 16	Spiking causing half-scam	Repaired broken wire on J4-3
I.R.M. CH. 15	Inoperable: defective detector	Replaced detector, drive tube, o-ring and retainer
S.R.M. CH. 22	Trip being brought in early: reads 1 decade higher than other three channels	Replaced defective pre-amp with calibrated operational spare
S.R.M. CH. 23	Trip being brought in early: erratic. SRM inoperable	Replaced drawer with calibrated operational spare
S.R.M. CH. 24	Surveillance discrepancies.	Adjustments made according to procedure 721.3.001 to correct discrepancies
I.R.M. CH. 16	Spiking causing half-scam. Trip being brought in early.	Cleaned connector at detector connection in drywell. Checked all other connectors.

AUGUST SUMMARY OF QASL ELECTRICAL MAINTENANCE

<u>EQUIPMENT</u>	<u>MALFUNCTION</u>	<u>CORRECTIVE ACTION</u>
Emergency Diesel Generator #2	Outer Insulation Covering on cable leading from Governor was degraded	Repaired taped cable with 3M Company #33 electrical tape and #70 silicone tape as final wrap
A.O.G. Building Water Removal System	Thermostat not functioning properly on refrigeration unit	Rewired High Temperature Thermostat to operate properly.
A.O.G. Building Recombiner Motor "B"	Wire Harness Shorted Electrically	Replaced hermetically sealed unit and wire harness.
RX Building Air Lock Doors	Interlock solenoids misaligned	Double nutted all solenoid mounting bolts to secure realignment.
RX Building N/W Air Lock Door	Improper alignment of interlocking mechanism	Retighten all mounting bolts so solenoid would line up properly to interlocking mechanism.
RX Building Refueling Crane	Hoist loaded lift did not go out when hoist was unloaded	Found grapple binding. Mechanics repaired grapple. Light was readjusted with test load and put back inservice.
Diesel Fire Pump House Fire System	BC-30 Module not working	Installed new BC-30 module in control panel at fire pond house.
4160 Room-Fire Protection System	Degraded fusible links on ventilation dampers	Installed new fusible links on C&D Boss Ventilation System - Fire System.

REFUELING INFORMATION -

Name of Facility: Oyster Creek Station #1

Scheduled date for next refueling shutdown: February 12, 1982

Scheduled date for restart following refueling: August 13, 1982

Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

A Tech Spec Change Request to incorporate G.E. fuel assemblies will be submitted by October 1, 1981.

Scheduled date(s) for submitting proposed licensing action and supporting information:

March 9, 1981 - Complete NEDO document #24195 (G.E. Reload Fuel Application for Oyster Creek) was submitted.

Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures:

1. General Electric fuel assemblies - fuel design & performance analysis methods have been approved by the NRC. New operating procedures, if necessary, will be submitted at a later date.
2. Exxon Fuel Assemblies - No major changes have been made nor are there any anticipated.

The number of fuel assemblies (a) in the core - 560  
(b) in the spent fuel storage pool - 781

The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies:

Present: 1,800                      Planned: 2,600

The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

The Spring 1987 Outage.\*

\*NOTE: This is for a normal refueling. Full core off-load, however can only be accommodated through about 1983 or 1984 with 1800 licensed locations.