



UNION ELECTRIC COMPANY
Callaway Plant

December 6, 1990

Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

ULNRC-2336

Dear Sir:

DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
FACILITY OPERATING LICENSE NPF-30
MONTHLY OPERATING REPORT
NOVEMBER 1990

The enclosed Monthly Operating Report for November, 1990 is submitted pursuant to section 6.9.1.8 of the Callaway Unit 1 Technical Specifications.

JR Perry

J. D. Blosser
for Manager, Callaway Plant

JDB
JDB/DEY/RDA/TAM/RJM/crc

Enclosure

cc: Distribution attached

9012190018 901130
PDR ADOCK 05000483
R PDR

Mailing Address: P.O. Box 620 · Fulton, MO 65251

180000

FEAT

cc distribution for ULNRC-2336

with enclosures

Mr. Richard Hague, Chief
Project Section 1A
U. S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Mr. Anthony Gody, Jr. (2 copies)
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Mail Stop P-316
7920 Norfolk Avenue
Bethesda, MD 20014

NRC Resident Inspector

Manager, Electric Department
Missouri Public Service Commission
P. O. Box 360
Jefferson City, MO 65102

DOCKET NO. 50-483
UNIT NAME CALLAWAY UNIT 1
DATE 12-6-90
COMPLETED BY E. J. McGinn
TELEPHONE 314/676-8243

PART A OPERATIONS SUMMARY

The plant returned to approximately 100% power following Refuel 4. The following events took place:

On 11/15/90 refueling outage maintenance activities and startup physics testing were completed.

On 11/15/90 while warming the main turbine prior to synchronization, main turbine bearing #3 failed. A stator cooling coil leak on the generator output bushing was subsequently identified as needing repair also. The main generator was synchronized to the grid on 11/19/90.

On 11/20/90 a main turbine overspeed test was conducted at 10% power.

On 11/24/90 a turbine trip/reactor trip occurred while performing a plant shutdown due to high sulfates in the reactor coolant system. The turbine trip was caused by a false MSR high level trip logic circuit which subsequently caused the reactor to trip on low-low S/G level. The unit was returned to service on 11/25/90.

PART B PORV AND SAFETY VALVE SUMMARY

During the turbine/reactor trip transient on 11/24/90, pressurizer PORV - BBPCV0455A - momentarily lifted and then reseated.

Part C
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-483
UNIT NAME CALLAWAY UNIT 1
DATE 12-6-90
COMPLETED BY R. J. McCann
TELEPHONE 314/676-8243

MONTH: NOVEMBER 1990

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL (MWe-Net)</u>	<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL (MWe-Net)</u>
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	185
5	0	21	281
6	0	22	457
7	0	23	570
8	0	24	0
9	0	25	9
10	0	26	438
11	0	27	647
12	0	28	1099
13	0	29	1166
14	0	30	1170
15	0		
16	0		

Part D
OPERATING DATA REPORT

DOCKET NO. 50-483
UNIT NAME CALLAWAY UNIT 1
DATE 12-6-90
COMPLETED BY R. J. McCann
TELEPHONE 314/676-8243

OPERATING STATUS

	<u>(YTD)</u>	<u>(CUM)</u>	
1. REPORTING PERIOD: NOVEMBER 1990 GROSS HOURS IN REPORTING PERIOD: 720	8,016	52,117.5	
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt): 3565 MAX. DEPEND. CAPACITY (MWe-Net): 1115 DESIGN ELECTRICAL RATING (MWe-Net): 1171			
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net):			
4. REASONS FOR RESTRICTION (IF ANY):			
	<u>THIS MONTH</u>	<u>YR TO DATE</u>	<u>CUMULATIVE</u>
5. NUMBER OF HOURS REACTOR WAS CRITICAL	400.6	6,630.6	44,611.0
6. REACTOR RESERVE SHUTDOWN HOURS	0	0	0
7. HOURS GENERATOR ON LINE.....	223.4	6,438.5	43,392.9
8. UNIT RESERVE SHUTDOWN HOURS	0	0	0
9. GROSS THERMAL ENERGY GENERATED (MWH)	481,701	21,895,924	143,330,347
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	157,500	7,529,693	48,734,549
11. NET ELECTRICAL ENERGY GENERATED (MWH)	130,339	7,158,393	46,253,514
12. REACTOR SERVICE FACTOR	55.6	82.7	85.6
13. REACTOR AVAILABILITY FACTOR	55.6	82.7	85.6
14. UNIT SERVICE FACTOR	31.0	80.3	83.3
15. UNIT AVAILABILITY FACTOR	31.0	80.3	83.3
16. UNIT CAPACITY FACTOR (Using MDC)	16.1	79.4	78.9
17. UNIT CAPACITY FACTOR (Using Design MWe)	15.5	76.3	75.8
18. UNIT FORCED OUTAGE RATE	39.4	3.67	3.48
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			
20. IF SHUT DOWN AT END OF REPORTING PERIOD, ESTIMATED DATE OF STARTUP:			

Part E
UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-483
UNIT NAME CALLAWAY UNIT 1
DATE 12-6-90
COMPLETED BY R. J. McCann
TELEPHONE 314/676-8242

REPORT MONTH: NOVEMBER 1990

NO.	DATE	TYPE		DURATION (HOURS)	REASON	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER	CORRECTIVE ACTIONS/COMMENTS
		F: FORCED	S: SCHEDULED				
12	9/21/90	S		350.0	C	1	On 11/15/90 refueling outage maintenance activities and startup physics testing were completed.
13	11/15/90	F		104.1	A	4	On 11/15/90 while warming the main turbine prior to synchronization, main turbine bearing #3 failed. A stator cooling coil leak on the generator output bushing was subsequently identified as needing repair also. The main generator was synchronized to the grid on 11/19/90.
14	11/20/90	S		1.2	B	4	On 11/20/90, a main turbine overspeed test was conducted at 10% power.
15	11/24/90	F		41.3	A	3	On 11/24/90 a turbine trip/reactor trip occurred while performing a plant shutdown due to high sulfates in the reactor coolant system. The turbine trip was caused by false MSR high level trip logic circuit which subsequently caused the reactor to trip on low-low S/G level. The unit was returned to service on 11/25/90.

SUMMARY:

REASON

A: EQUIPMENT FAILURE (EXPLAIN)
B: MAINT. OR TEST
C: REFUELING
D: REGULATORY RESTRICTION
E: OPERATOR TRAINING AND
LICENSE EXAMINATION
F: ADMINISTRATIVE
G: OPERATIONAL ERROR (EXPLAIN)
H: OTHER (EXPLAIN)

METHOD

1: MANUAL
2: MANUAL SCRAM
3: AUTOMATIC SCRAM
4: OTHER (EXPLAIN)