



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

BALTIMORE GAS & ELECTRIC COMPANY

DOCKET NO. 50-317

CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 46
License No. DPR-53

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The applications for amendment by Baltimore Gas & Electric Company (the licensee) dated July 24, 1979 and January 22, 1980, comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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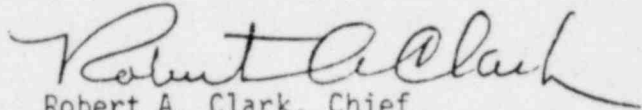
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.2 of Facility Operating License No. DPR-53 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 46, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: September 10, 1980

ATTACHMENT TO LICENSE AMENDMENT NO. 46

FACILITY OPERATING LICENSE NO. DPR-53

DOCKET NO. 50-317

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change. The corresponding overleaf pages are also provided to maintain document completeness.

Pages

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TABLE 3.7-4

SAFETY RELATED HYDRAULIC SNUBBERS*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
1-64-21	PRESSURIZER SURGE LINE 46'	I	Yes	No
1-64-22	PRESSURIZER SURGE LINE 42'	I	Yes	No
1-64-23	PRESSURIZER SURGE LINE 42'	I	Yes	No
1-64-24	PRESSURIZER SURGE LINE 42'	I	Yes	No
1-64-25	PRESSURIZER SURGE LINE 42'	I	Yes	No
1-64-26	LINE FROM MOV 403 TO ERV 402 84'	I	Yes	No
1-64-27	LINE TO PRESS. SAFETY RV 200 81'	I	Yes	No
1-64-28	LINE TO PRESS. SAFETY RV 201 81'	I	Yes	No
1-64-29	LETDOWN TO REGEN H/X 34'	I	Yes	No
1-64-31	LETDOWN FROM LOOP 12A 33'	I	Yes	No
1-64-32	LETDOWN FROM LOOP 12A 26'	I	Yes	No
1-54-33	LETDOWN FROM LOOP 12A 26'	I	Yes	No
1-64-34	LETDOWN FROM LOOP 12A 26'	I	Yes	No
1-64-35	LETDOWN FROM LOOP 12A 26'	I	Yes	No

TABLE 3.7-4

SAFETY RELATED HYDRAULIC SNUBBERS*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
1-64-41	CROSSTIE BETWEEN PRESS. RELIEF LINES 85'	I	Yes	No
1-64-42	CROSSTIE BETWEEN PRESS. RELIEF LINES 85'	I	Yes	No
1-64-45	RC TO RC DRAIN TANK 32'	I	Yes	No
1-64-52	RCP 12A CONT. BLEED OFF TO CVC 36'	I	Yes	No
1-64-53	RCP 11A CONT. BLEED OFF TO CVCS 41'	I	Yes	No
1-64-54	RCP 11A CONT. BLEED OFF TO CVCS 36'	I	Yes	No
1-64-55	RCP 12B CONT. BLEED OFF TO CVCS 36'	I	Yes	No
1-64-56	RCP 12B CONT. BLEED OFF TO CVCS 41'	I	Yes	No
1-64-96	RCP 11A AND 11B MOTORS 56'	I	Yes	No
1-64-97	RCP 11A AND 11B MOTORS 56'	I	Yes	No

CALVERT CLIFFS-UNIT 1

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Amendment No. 5
APR 24 1979

TABLE 3.7-4

SAFETY RELATED HYDRAULIC SNUBBERS*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
1-64-98	RCP 11A and 11B MOTORS 56'	I	Yes	No
1-64-99	RCP 11A and 11B MOTORS 56'	I	Yes	No
1-64-100	RCP 12A and 12B MOTORS 56'	I	Yes	No
1-64-101	RCP 12A and 12B MOTORS 56'	I	Yes	No
1-64-102	RCP 12A and 12B MOTORS 56'	I	Yes	No
1-64-103	RCP 12A and 12B MOTORS 56'	I	Yes	No
1-67-1	#11 SPENT FUEL POOL COOL. PUMP SUCTION - RWT 27'	A	No	No
1-67-2	INLET - SPENT FUEL POOL COOLER #12 27'	A	No	No
1-67-2A	INLET - SPENT FUEL POOL COOLER #12 27'	A	No	No
1-67-3	WATER TO REFUELING POOL #11 38'	I	Yes	No
1-67-4	WATER TO REFUELING POOL #11 40'	I	Yes	No

TABLE 3.7-4

SAFETY RELATED HYDRAULIC SNUBBERS*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
1-83-1	MAIN STEAM FROM S.G. #11 27'	A	No	Yes
1-83-2	MAIN STEAM FROM S.G. #11 27'	A	No	Yes
1-83-3	MAIN STEAM FROM S.G. #12 27'	A	No	Yes
1-83-4	MAIN STEAM FROM S.G. #12 27'	A	No	No

PLANT SYSTEMS

FIRE HOSE STATIONS

LIMITING CONDITIONS FOR OPERATION

3.7.11.4 The fire hose stations shown in Table 3.7-5 shall be OPERABLE.

APPLICABILITY: Whenever equipment in the areas protected by the fire hose stations is required to be OPERABLE.

ACTION:

- a. With one or more of the fire hose stations shown in Table 3.7-5 inoperable, route an additional equivalent capacity fire hose to the unprotected area(s) from an OPERABLE hose station within 1 hour.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.11.4 Each of the fire hose stations shown in Table 3.7-5 shall be demonstrated OPERABLE:

- a. At least once per 31 days by visual inspection of the station to assure all required equipment is at the station. Hose stations located in the containment shall be visually inspected on each reactor shutdown, but not more frequently than every 31 days.
- b. At least once per 18 months by:
 1. Removing the hose for inspection and re-racking, and
 2. Replacement of all degraded gaskets in couplings.
- c. At least once per 3 years by:
 - i. Partially opening each hose station valve to verify valve OPERABILITY and no flow blockage.
 2. Conducting a hose hydrostatic test at a pressure at least 50 psig greater than the maximum pressure available at that hose station or replacement with a new hose.

TABLE 3.7-5
FIRE HOSE STATIONS

<u>LOCATION</u>	<u>ELEVATION</u>	<u>NUMBER OF HOSE STATIONS</u>
1. Containment	10'	2
	45'	2
	69'	2
2. Auxiliary Building	-15'	1
	-10'	1
	5'	6
	27'	4
	45'	5
	69'	4
3. Turbine Building (Outside Auxiliary Feed Pump Room)	12	1

CALVERT CLIFFS - UNIT 1

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Amendment No. 26

DEC 2 1977



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

BALTIMORE GAS & ELECTRIC COMPANY

DOCKET NO. 50-318

CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 29
License No. DPR-69

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The applications for amendment by Baltimore Gas and Electric Company (the licensee) dated July 24, 1979 and January 22, 1980, comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

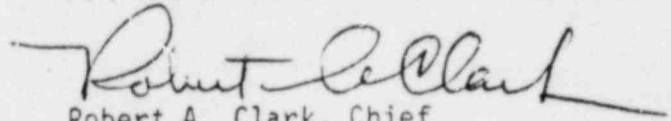
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.2 of Facility Operating License No. DPR-69 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 29, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: September 10, 1980

ATTACHMENT TO LICENSE AMENDMENT NO. 29

FACILITY OPERATING LICENSE NO. DPR-69

DOCKET NO. 50-318

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change. The corresponding overleaf pages are also provided to maintain document completeness.

Pages

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3/4 7-45
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TABLE 3.7-4

SAFETY RELATED HYDRAULIC SNUBBERS*

SNUBBER NO.	SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE** (Yes or No)	ESPECIALLY DIFFICULT TO REMOVE (Yes or No)
2-15-5	COMP. COOLING PUMP #22 DISCH. 18'-6"	A	No	Yes
2-15-6	COMP. COOLING PUMPS DISCH. HEADER 14'-5"	A	No	Yes
2-15-7	COMP. COOLING PUMPS DISCH. HEADER 14'-5"	A	No	Yes
2-15-8	COMP. COOLING TO LIQUID WASTE EVAP. 64'	A	No	No
2-15-9	COMP. COOLING TO LIQUID WASTE EVAP. 64'	A	No	No
2-36-1	STEAM SUPPLY TO #22 AUX. SGFP 12'	A	No	No
2-36-1A	STEAM SUPPLY TO #22 AUX. SGFP 12'	A	No	No
2-36-2	STEAM SUPPLY TO #21 AUX. SGFP 12'	A	No	No
2-36-2A	STEAM SUPPLY TO #21 AUX. SGFP 12'	A	No	No
2-36-4	AFW INLET TO #21 STEAM GENERATOR 65'	I	Yes	No
2-36-4A	AFW INLET TO #21 STEAM GENERATOR 65'	I	Yes	No
2-36-5	AFW INLET TO #22 STEAM GENERATOR 65'	I	Yes	No
2-38-1	RCS AUX. PIPING TO SAMPLE COOLER 13'	I	Yes	No
2-38-2	RCS AUX. PIPING TO SAMPLE COOLER 54'1"	I	Yes	No

CALVERT CLIFFS-UNIT 2

3/4 7-31

Amendment No. 29

TABLE 3.7-4

SAFETY RELATED HYDRAULIC SNUBBERS*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
2-41-1	CHARGING LINE OUTLET OF REGEN HEAT EXCHG 40'	I	Yes	No
2-45-1	F.W. INLET TO #21 STEAM GENERATOR 40'-4"	I	Yes	No
2-45-1A	F.W. INLET TO #21 STEAM GENERATOR 40'-4"	I	Yes	No
2-45-2	F.W. INLET TO #22 STEAM GENERATOR 55'	I	Yes	No
2-45-3	F.W. INLET TO #22 STEAM GENERATOR 55'	I	Yes	No
2-52-1	#21 S.I. PUMPS SUCTION FROM CONT. SUMP 5'-7"	A	No	No
2-52-2	LPSI PUMP #21 SUCTION 0'-6"	A	No	No
2-52-2A	LPSI PUMP #21 SUCTION 0'-6"	A	No	No
2-52-3	LPSI PUMP #22 DISCHARGE 4'-0"	A	No	No
2-52-3A	LPSI PUMP #22 DISCHARGE 4'-0"	A	No	No
2-52-4	HPSI PUMP #22 SUCTION 5'-10"	A	No	No
2-52-5	HPSI PUMP #23 SUCTION 4'-9"	A	No	No

CALVERT CLIFFS-UNIT 2

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POOR ORIGINAL

TABLE 3.7-4

SAFETY RELATED HYDRAULIC SNUBBERS*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
2-61-19	CONT. SPRAY HDR FOR SPRAY RING #22 39'	I	Yes	Yes
2-63-1	S/G #22 BLOWDOWN LINE 34' 11'	A	No	No
2-63-2	S/G #22 BLOWDOWN LINE 27' 10'	A	No	No
2-63-3	NITROGEN LINE TO S/G #22 77'6"	I	Yes	No
2-63-4	NITROGEN LINE TO S/G #22 77'6"	I	Yes	No
2-63-5	S/G #21 SURFACE BLOWDOWN LINE 76'9"	I	Yes	No
2-63-6	S/G #21 SURFACE BLOWDOWN LINE 76'9"	I	Yes	No
2-63-11	STEAM GENERATOR #21 75'	I	Yes	Yes
2-63-12	STEAM GENERATOR #21 75'	I	Yes	Yes
2-63-13	STEAM GENERATOR #21 75'	I	Yes	Yes
2-63-14	STEAM GENERATOR #21 75'	I	Yes	Yes
2-63-15	STEAM GENERATOR #21 75'	I	Yes	Yes
2-63-16	STEAM GENERATOR #21 75'	I	Yes	Yes
2-63-17	STEAM GENERATOR #21 75'	I	Yes	Yes

TABLE 3.7-4

SAFETY RELATED HYDRAULIC SNUBBERS*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
2-63-18	STEAM GENERATOR #21 75'	I	Yes	Yes
2-63-19	STEAM GENERATOR #22 75'	I	Yes	Yes
2-63-20	STEAM GENERATOR #22 75'	I	Yes	Yes
2-63-21	STEAM GENERATOR #22 75'	I	Yes	Yes
2-63-22	STEAM GENERATOR #22 75'	I	Yes	Yes
2-63-23	STEAM GENERATOR #22 75'	I	Yes	Yes
2-63-24	STEAM GENERATOR #22 75'	I	Yes	Yes
2-63-25	STEAM GENERATOR #22 75'	I	Yes	Yes
2-63-26	STEAM GENERATOR #22 75'	I	Yes	Yes
2-64-1	PRESSURIZER REL PIPING UPSTREAM MOV 403 81'6"	I	Yes	No
2-64-2	PRESSURIZER REL PIPING TO MOV 200 79'11"	I	Yes	No
2-64-3	PRESSURIZER REL PIPING DOWNSTREAM MOV 405 84'3"	I	Yes	No

CONVERT CLIFFS-UNIT 2

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PLANT SYSTEMS

FIRE HOSE STATIONS

LIMITING CONDITIONS FOR OPERATION

3.7.11.4 The fire hose stations shown in Table 3.7-5 shall be OPERABLE.

APPLICABILITY: Whenever equipment in the areas protected by the fire hose stations is required to be OPERABLE.

ACTION:

- a. With one or more of the fire hose stations shown in Table 3.7-5 inoperable, route an additional equivalent capacity fire hose to the unprotected area(s) from an OPERABLE hose station within 1 hour.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.11.4 Each of the fire hose stations shown in Table 3.7-5 shall be demonstrated OPERABLE:

- a. At least once per 31 days by visual inspection of the station to assure all required equipment is at the station. Hose stations located in the containment shall be visually inspected on each reactor shutdown, but not more frequently than every 31 days.
- b. At least once per 18 months by:
 1. Removing the hose for inspection and re-racking, and
 2. Replacement of all degraded gaskets in couplings.
- c. At least once per 3 years by:
 1. Partially opening each hose station valve to verify valve OPERABILITY and no flow blockage.
 2. Conducting a hose hydrostatic test at a pressure at least 50 psig greater than the maximum pressure available at that hose station or replacement with a new hose.

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TABLE 3.7-5

FIRE HOSE STATIONS

<u>LOCATION</u>	<u>ELEVATION</u>	<u>NUMBER OF HOSE STATIONS</u>
1. Containment	10'	2
	45'	2
	69'	2
2. Auxiliary Building	-15'	1
	-10'	1
	5'	6
	27'	4
	45'	5
	69'	4
3. Turbine Building (Outside Auxiliary Feed Pump Room)	12	1

ELECTRICAL POWER SYSTEMS

SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.8.1.2 As a minimum, the following A.C. electrical power sources shall be OPERABLE:

- a. One circuit between the offsite transmission network and the onsite Class 1E distribution system, and
- b. One diesel generator with:
 1. A day fuel tank containing a minimum volume of 375 gallons of fuel,
 2. A fuel storage system containing a minimum volume of 18,250 gallons of fuel, and
 3. A fuel transfer pump.

APPLICABILITY: MODES 5 and 6.

ACTION:

With less than the above minimum required A.C. electrical power sources OPERABLE, suspend all operations involving CORE ALTERATIONS or positive reactivity changes until the minimum required A.C. electrical power sources are restored to OPERABLE status.

SURVEILLANCE REQUIREMENTS

4.8.1.2 The above required A.C. electrical power sources shall be demonstrated OPERABLE by the performance of each of the Surveillance Requirements of 4.8.1.1.1 and 4.8.1.1.2 except for requirement 4.8.1.1.2a.5.

ELECTRICAL POWER SYSTEMS

3/4.8.2 ONSITE POWER DISTRIBUTION SYSTEMS

A.C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION

3.8.2.1 The following A.C. electrical busses shall be OPERABLE and energized from sources of power other than the diesel generators with tie breakers open between redundant busses:

4160	volt Emergency Bus # 21
4160	volt Emergency Bus # 24
480	volt Emergency Bus # 21A or 24B
480	volt Emergency Bus # 24A or 21B
120	volt A.C. Vital Bus # 21
120	volt A.C. Vital Bus # 22
120	volt A.C. Vital Bus # 23
120	volt A.C. Vital Bus # 24

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With less than the above complement of A.C. busses OPERABLE, restore the inoperable bus to OPERABLE status within 8 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours

SURVEILLANCE REQUIREMENTS

4.8.2.1 The specified A.C. busses shall be determined OPERABLE and energized from A.C. source other than the diesel generators with tie breakers open between redundant busses at least once per 7 days by verifying correct breaker alignment and indicated power availability.