

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

#### DUQUESNE LIGHT COMPANY

OHIO EDISON COMPANY

#### PENNSYLVANIA POWER COMPANY

DOCKET NO. 50-334

BEAVER VALLEY POWER STATION, UNIT NO. 1

#### AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 90 License No. DPR-66

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company (the licensees) dated June 28, 1984, complies 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.
- 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-66 is hereby amended to read as follows:

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# (2) <u>Technical Specifications</u>

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 90, are hereby incorporated in the license. The licensee shall operate the facility in acco. nce with the Technical Specifications.

3. This license amendment is effective on issuance, to be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Speven A. Varga, Chief Operating Reactors Branch #1 Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: January 25, 1985

# ATTACHMENT TO LICENSE AMENDMENT

# AMENDMENT NO. 90 TO FACILITY OPERATING LICENSE NO. DPR-66 DOCKET NO. 50-334

# Revise Appendix A as follows: .

Remove Pages	Insert Pages
3/4 3-19a	3/4 3-19a
3/4 3-24	3/4 3-24
3/4 3-24a	3/4 3-24a
3/4 3-27a	3/4 3-27a
3/4 3-28	3/4 3-28
3/4 3-31a	3/4 3-31a
3/4 3-66	3/4 3-66
3/4 3-67	3/4 3-67

# TABLE 3.3-3 (Continued)

# ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

FUNC	MOIT	AL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
7.	AUX	ILIARY FEEDWATER					
	a.	Steam Gen. Water Level- (Loop Stop Valves Ope 1. Start Turbine					
		Driven Pump	3/stm. gen.	2/stm. gen. any stm. gen.	2/stm. gen.	1, 2, 3	14
		11. Start Motor					
		Driven Pumps	3/stm. gen.	2/stm. gen. any 2 stm. gen.	2/stm. gen.	1, 2, 3	. 14
	b.	Undervoltage-RCP (Start Turbine Driven Pump)	(3)-1/bus	2	2	1	14
	c.	S.1. (Start Motor-Driven Pumps)	See 1 above	(all S.I. initiati	ing function	s and require	ments)
	d.	Turbine Driven Pump Discharge Pressure Low With Steam Valve Open - (Start Motor-Driven Pump	(2)-1/Train	1	1	1, 2, 3	18
	e.	Emergency Bus Undervolta (Start Motor Driven Pumps)	ge 1/bus	1	1	1, 2, 3	18
	f.	Trip of Main Feedwater Pumps - (Start Motor Driven Pumps)	1/pump	1	1	1, 2, 3	18

#### TABLE 3.3-4 (Continued)

# ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION TRIP SETTOINIS

		FUNCTIONAL UNIT	TRIP SETPOINT	ALLOWABLE VALUES
7.	MUX	ILIARY FERIMATER		
	а.	Steam Generator Water Level-low-low	≥12% of narrow range instrument span each steam generator	≥lis of marrow range instrument span each steam generator
	b.	Undervoltage - RC2	≥2750 volts ICP bus voltage	≥ 2725 volts PCP bus voltage
	c.	S.I.	See 1 above (all SI Setpoint	ts)
	d.	Turbine Driven Pump Discharge Pressure Low	≥468 psig-	≥ 452 psig
	e.	Emergency Bus Undervoltage	≤3350 volts	≤3325 volts
	f.	Trip of Main Feedwater Pumps	Not Applicable	Not Applicable

#### TABLE 3.3-5 (Continued)

# ENGINEERED SAFZTY FEATURES RESPONSE TIMES

IN	ITTIATING SIGNAL-AND FUNCTION	RESPONSE TIME IN SECONDS
. Ste	am Generator Water Level-Low-low	
a.	Motor-driven Auxiliary Feedwater Pumps**	60.0
b.	Turbine driven Auxiliary Feedwater Pumps***	60.0
. Und	ervoltage RCP	
a.	Turbine-driven Auxiliary Feedwater Pumps	60.0
. Eme	rgency Bus Undervoltage	
a.	Motor-driven Appiliary Feedwater Pumps	60.0
. <u>Tri</u>	p of Main Feedwater Pumps	
a.	Motor-driven Auxiliary Feedwater Pumps	60.0
	bine Driven Pump Discharge	
<b>a.</b>	Motor-driven Auxiliary Feedwater Pumps	60.0
TE:	Response time for Motor-driven	50.0
	Auxiliary Feedwater Pumps on all S.I. signal starts	

# TABLE 3.3-5 (Continued)

#### TABLE NOTATION

- \* Diesel generator starting and sequence loading delays included. Response time limit includes opening of valves to establish SI path and attainment of discharge pressure for centrifugal charging pumps and Low Head Safety Injection pumps.
- # Diesel generator starting and sequence loading delays not included.
  Offsite power available. Response time limit includes opening of valves to establish SI path and attainment of discharge pressure for centrifugal charging pumps.
- ## Diesel generator starting and sequence loading delays included. Response time limit includes opening of valves to establish SI path and attainment of discharge pressure for centrifugal charging pumps.
- (1) Feedwater system overall response time shall include verification of valve stroke times applicable to the feedwater valves shown for penetrations 76, 77 and 78 on Table 3.6-1.

#### TABLE 4.3-2 (Continued)

#### ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

#### SURVEILLANCE REQUIREMENTS

	FUNCTIONAL UNIT	CHECK	CALIBRATION	CHANNEL FUNCTIONAL TEST	SURVETILIANCE REQUIRED
AUX	ILIARY FEEDWATER				
a.	Steam Generator Water				
	Level-Low-Low	S	R	М	1, 2, 3
b.	Undervoltage - RCP	8	R	м	1, 2
c.	S.I. See	l above (a)	ll SI surveilland	e requirements)	
d.	Turbine-driven Pump				
	Discharge Pressure Low	N/A	R	R	1, 2, 3
e.	Emergency Bus Undervoltage	N/A	R	R	1, 2, 3
f.	Trip of Ma'n				
	Feedwater Pumps	N/A	N/A	R	1, 2, 3

TABLE 4.3-13 (Continued)

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

		INSTRUMENT	CHARMEL	SOURCE.	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST
	e.	Sampler Flow Rate	Ð	N/A	R	6
3.	Col	lection and Release System 1-VS-107A & B)				
	a.	Noble Gas Activity Monitor	D	M(5), P	(5)*** R(3)	Q(2)
	b.	lodine Sampler Cartridge	W(6)	N/A	N/A	N/A
	c,	Particulate Activity Honitor	u	N/A	N/A	N/A
	d.	System Effluent Flow Rate heasuring Device (FR-VS-112)	D	N/A	R	Q
	e.	Sampler Flow Rate Measuring Device	D	N/A	R	Q
	Was	te Gas Decay Tanks Monitor				
	a.	Oxygén Honitor (0 <sub>2</sub> -AS-GH-110-1,2)	D	N/A	Q(4)	, M; .
	b.	Radiation Honitor (RM-GW-101)	D**	N(5)	R(3)	Q(2)
	c.	Sampler Flow Rate Heasuring Device	D**	N/A	R	Q

#### TABLE 4.3-13 (Continued)

# TABLE NOTATION

- \* During releases via this pathway
- \*\* During Waste Gas Tank filling operations
- \*\*\* During purging of Reactor Containment via this pathway
  - (1) The CHANNEL FUNCTIONAL TEST shall also demonstrate that automatic isolation of this pathway and control room alarm annunciation occurs if any of the following conditions exist:
    - a. Instrument indicates measured levels above the alarm/trip setpoint.
    - b. Downscale failure.
    - c. Instrument controls not set in operate mode.
  - (2) The CHANNEL FUNCTIONAL TEST shall also demonstrate that control room alarm annunciation occurs if any of the following enditions exist:
    - a. Instrument indicates measured levels above the alarm/trip setpoint.
    - b. Downscale failure.
    - c. Instrument controls not set in operate mode.
- (3) The initial CHANNEL CALIBRATION for radioactivity measurement instrumentation shall be performed using one or more of the reference standards certified by the National Bureau of Standards or using standards that have been obtained from suppliers that participate in measurement assurance activities with NBS. These standards should permit calibrating the system over its intended range of energy and rate capabilities. For subsequent CHANNEL CALIBRATION, sources that have been related to the initial calibration should be used, at intervals of at least once per eighteen months. This can normally be accomplished during refueling outages.

TABLE 4.3-13 (Continued)

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

	INSTRUMENT	CHECK	SOURCE CHECK	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST
e.	Sampler Flow Rate	Đ	N/A	R	Q.
Col	lection and Release System 1-VS-107A & B)				
a.	Noble Gas Activity Honitor	D	H(5), P	(5)*** R(3)	Q(2)
b.	lodine Sampler Cartridge	W(6)	N/A	N/A	N/A
c.	Particulate Activity Honitor	u	N/A	N/A	N/A
d.	System Effluent Flow Rate heasuring Device (FR-VS-112)	D	N/A	R	Q
e.	Sampler Flow Rate Measuring Device	D	N/A	R	Q
Was	te Gas Decay Tanks Monitor				
a.	0xygén Honitor (0 <sub>2</sub> -AS-GH-110-1,2)	D	N/A	Q(4)	, ж.
b.	Radiation Monitor (RM-GW-101)	D**	N(5)	R(3)	Q(2)
c.	Sampler Flow Rate Heasuring Device	D**	D/A	R	Q