, Docket No. 50-423

Mr. Edward J. Mroczka Senior Vice President Nuclear Engineering and Operations Northeast Nuclear Energy Company Post Office Box 270 Hartford, Connecticut 06141-0270

Dear Mr. Mroczka:

8802240142 880214

PDR

PDR

SUBJECT: ISSUANCE OF AMENDMENT (TAC NO. 66789)

The Commission has issued the enclosed Amendment No. 14 to Facility Operating License No. NPF-49 for Millstone Nuclear Power Station, Unit No. 3, in response to your application dated December 4, 1987.

The amendment revises the Technical Specifications to delete the chlorine detection system from Technical Specification 3/4.3.2.

A copy of the related Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's bi-weekly Federal Register notice.

Sincerely,

"Ansonial States Stre

Robert L. Ferguson, Project Manager Project Directorate I-4 Division of Reactor Projects I/II Office of Nuclear Reactor Regulation

Enclosures: 1. Amendment M 2. Safety Eval	lo.]4 to NPF-49. Juation		
cc w/enclosures See next page	5:		
DISTRIBUTION Docket File NRC & Local PDF PDI-4 Reading S. Varga B. Boger S. Norris	D. Hagan E. Jordan J. Partlow T. Barnhart(4)	Wanda Jones E. Butcher ACRS (10) GPA/PA ARM/LFMB Gray File	AB S
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# UNITED STATES UNITED STATES UNITED STATES UNITED STATES



### NORTHEAST NUCLEAR ENERGY COMPANY, ET AL.\*

### DOCKET NO. 50-423

### MILLSTONE NUCLEAR POWEP STATION, UNIT NO. 3

#### AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 14 License No. NPF-49

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Northeast Nuclear Energy Company, et al. (the licensee) dated December 4, 1987, 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.

8802240173 880216 PDR ADOCK 05000423 PDR PDR

<sup>\*</sup>Northeast Nuclear Energy Company is authorized to act as agent and representative for the following Owners: Central Maine Power Company, Central Vermont Public Service Corporation, Chicopee Municipal Lighting Plant, City of Burlington, Vermont, Connecticut Municipal Electric Light Company, Massachusetts Municipal Wholesale Electric Company, Montaup Electric Company, New England Power Company, The Village of Lyndonville Electric Department, Western Massachusetts Electric Company, and Vermont Electric Generation and Transmission Cooperative, Inc., and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

- 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.(?) of Facility Operating License No. NPF-49 is hereby amended to read as follows:
  - (?) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 14, and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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

FOR THE NUCLEAR REGULATORY COMMISSION

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John F. Stolz, Director

Director Project Directorate 1-4 Division of Reactor Projects I/II Office of Nuclear Reactor Reculation

Attachment: Charges to the Technical Specifications

Date of Issuance: February 16, 1988

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# ATTACHMENT TO LICENSE AMENDMENT NO. 14

#### FACILTLY OPERATING LICENSE NO. NPF-49

### DOCKET NO. 50-4°3

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

:

Remove	Insert
3/4 3-22	3/4 3-22
3/4 3-29	3/4 3-29
3/4 3-34	3/4 3-34
3/4 3-40	3/4 3-40

# TABLE 3.3-3 (Continued)

# ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION

FUNC	CTION	IAL UN	<u>11 T</u>	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
6.	Aux	iliar	y Feedwater					•
	a.	Manu	al Initiation	2	1	2	1, 2, 3	23
	b.		matic Actuation Logic Actuation Relays	2	1	2	1, 2, 3	22
	c.	Stm. Low-	Gen. Water Level Low					
		1)	Start Motor- Driven Pumps	4/stm. gen.	2/stm. gen. in any oper- ating stm. gen.	3/stm. gen. in each operating stm. gen.	1, 2, 3	20*
		2)	Start Turbine- Driven Pump	4/stm. gen.	2/stm. gen. in any 2 operating stm. gen.	3/stm. gen. in each operating stm. gen.	1, 2, 3	20*
	d.	Safe Star Pump	ty Injection t Motor-Driven s	See Item 1. requirements	above for all Sa	fety Injection	initiating func	tions and
	e.		-of-Offsite Power t Motor-Driven s	2	1	2	1, 2, 3	19

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MILLSTONE - UNIT 3

3/4 3-21

### TABLE 3.3-3 (Continued)

### ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION

FUNC	TIONAL	L UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
6.	Auxi	liary Feedwater (Continued)					•
	f.	Containment Depressurization Actuation (CDA) Start Motor- Driven Pumps		above for all CD	A functions and	l requirements.	
7.	Conti	rol Building Isolation					
	a.	Manual Actuation	2	1	2	A11	19
	b.	Manual Safety Injection Actuation	2	1	2	1, 2, 3, 4	19
	c.	Automatic Actuation Logic and Actuation Relays	2	1	2	A11	14
	d.	Containment Pressure High-1	3	2	2	1, 2, 3	15
	e.	Control Building Inlet Ventilation Radiation	2/intake	1	2/intake	A11	18
8.	Loss	of Power					
	a.	4 kV Bus Under-voltage- Loss of Voltage	4/bus	2/bus	3/bus	1, 2, 3, 4	20*
	b.	4 kV Bus Undervoltage- Grid Degraded Voltage	4/bus	2/bus	3/bus	1, 2, 3, 4	20#

1.0

MIL			enciner ber	-		-4 (Continue	ed) STRUMENTATION TRIP SETP	OINTS	
MILLSTONE - 1	FUN	CTION	IAL UNIT	TOTAL ALLOWANCE (TA)		SENSOR ERROR (S)	TRIP SETPOINT	ALLOWABLE VALUE	
U::1T	6.	Aux	ciliary Feedwater (Con	tinued)					
ω		2)	Start Turbine- Driven Pumps	20.5	18.98	1.75		≥ 22.6% of narrow range instrument span.	{
		d.	Safety Injection	See Item 1. abo	ove for a	ll Safety Ir	njection Trip Setpoints	and Allowable Values.	X.
3/4		e.	Loss-of-Offsite Power Start Motor-Driven Pumps	N.A.	N.A.	N.A.	- 5800A	- 2720V	
'4 3-29		f.	Containment Depressurization Actuation (CDA) Start Motor-Driven Pumps	See Item 2. abo	ove for a	ll CDA Trip	Setpoints and Allowable	e Values.	
	7.	Con	trol Building Isolatio	on					
Amen		a.	Manual Actuation	N.A.	N.A.	N.A.	N.A.	N.A.	(
Amendment		b.	Manual Safety Injection Actuation	N.A.	N.A.	N.A.	N.A.	N.A.	
No. 14		c.	Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	N.A.	
		d.	Containment PressureHigh 1	3.3	1.01	1.75	4 3.0 psig	≤ 3.8 psig	
		<b>e.</b>	Control Building Inlet Ventilation Radiation	N.A.	N.A.	N.A. "	£1.5 x 10 <sup>-5</sup> yc/cc	41.5 x 10 <sup>-5</sup> Mc/cc	

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### TABLE 3.3-4 (Continued)

# ENGINEERING SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION TRIPS SETPOINTS

FUNC	CTION	AL_UNIT_	TOTAL Allowance (ta)	<u>Z</u>	SENSOR ERROR (S)	TRIP SETPOINT	ALLOWABLE VALUE
8.	Loss	s of Power					
	a.	4 kV Bus Undervoltage (Loss of Voltage)	N.A.	N.A.	N.A.	$\geq$ 2800 volts with a $\leq$ 2 second time delay.	$\geq$ 2720 volts with a $\leq$ 2 second time delay.
	ð.	4 kV Bus Undervoltage (Grid Degraded Voltage)	N.A.	N.A.	N.A.	≥ 3710 volts with a ≤ 8 second time delay with ESF. actuation or ≤ 300 second time delay without ESF actuation.	≥ 3706 volts with a ≤ 8 second time delay with ESF actuation or ≤ 300 second time delay without ESF actuation.
9.	-	neering Safety Features ation System Interlocks					
	a.	Pressurizer Pressure, P-11	N.A.	N.A.	N.A.	<b>≤</b> 1985 psig	<b>≤</b> 1995 psig. (
	b.	Low-Low Tavg, P-12	N.A.	N.A	N.A.	≥ 553°F	<u>&gt;</u> 549.6°F
	c.	Reactor Trip, P-4	N.A.	N.A.	N.A.	N.A.	N.A.
	đ.	Steam Generator Water Level, P-14	See Item 5 above and Allowable Va	for all lues.	Steam Gene	erator Water Level 1	<b>Frip Setpoints</b>
10.		rgency Generator Load Nencer	N.A.	N.A.	N.A.	Ν.Λ.	N.A.

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MILLSTONE - UNIT 3

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Amendment No. 12

# TABLE 3.3-5 (Continued)

# ENGINEERED SAFETY FEATURES RESPONSE TIMES

INIT	TATI	NG SIGNAL AND FUNCTION	RESPONSE TIME IN SECONDS
4.	Ste	am Line PressureLow	
	a.	Safety Injection (ECCS)	$\leq 27^{(5)}/37^{(4)}$
		1) Reactor Trip	<u>&lt;</u> 2
		2) Feedwater Isolation	, <u>c</u> g(3)
		3) Phase "A" Isolation	$\leq 2^{(2)(6)}/12^{(1)(6)}$
		<ol> <li>Auxiliary Feedwater</li> </ol>	<u>&lt;</u> 60
		5) Service Water	$\leq 90^{(1)}$
		6) Start Diesel Generators	<u>&lt; 12</u>
	b.	Steam Line Isolation	$\leq 6.8^{(3)}$
5.	Con	tainment PressureHigh-3	
•	a.	Quench Spray	$\leq 32^{(2)}/42^{(1)}$
	ь.	Phase "B" Isolation	$\leq 2^{(2)(6)}/12^{(1)(6)}$
	C.	Motor-Driven Auxiliary Feedwater Pumps	<u>&lt;</u> 60
	d.	Service Water	≤ 90 <sup>(1)</sup>
6.	Con	tainment PressureHigh-2	( <b>a</b> )
	8.	Steam Line Isolation	$\leq 6.8^{(3)}$
7.	Ste	am Line Pressure - Negative RateHigh	
	<b>a</b> .	Steam Line Isolation	$\leq 6.8^{(3)}$
8.	Ste	am Generator Water LevelHigh-High	
	8.	Turbine Trip	<u>&lt;</u> 2.5
	b.	Feedwater Isolation	$\leq 6.8^{(3)}$
9.	Ste	am Generator Water LevelLow-Low	
	۹.	Motor-Driven Auxiliary Feedwater Pumps	<u>≤</u> 60
	b.	Turbine-Driven Auxiliary Feedwater Pump	≤ 60
10.	Los	ss-of-Offsite Power	
	8.	Motor-Driven Auxiliary Feedwater Pump	<u>≤</u> 60

MILLSTONE - UNIT 3

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Amendment No. 3 APR 9 1987 =

### TABLE 3.3-5 (Continued)

# ENGINEERED SAFETY FEATURES RESPONSE TIMES

INIT	IATIN	G SIGNAL AND FUNCTION	RESPONSE TIME IN SECONDS	
11.	Loss	of Power		
	a.	4 kV Bus Undervoltage (Loss of Voltage)	<b>≟</b> 13	
	b.	4 kV Emergency Bus Undervoltage (Grid Degraded Voltage)	<u>←</u> 18 <sup>(7)</sup> /310 <sup>(8)</sup>	
12.		Low Coincident With tor Trip (P-4)		
	a.	Feedwater Isolation	<b>∠</b> 12(3)	
13.		rol Building Inlet ilation Radiation		
	a.	Control Building Isolation	<b>±</b> 3.7	

### MILLSTONE - UNIT 3

3/4 3-34 Amendment No.10,72,14

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# TABLE 4.3-2 (Continued)

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		ENGI	NEERED SAF			STEM INSTRUME	NTATION			
				SURVEILLA	NCE REQUIREME	<u>N15</u>				
FUN	CTION	AL UNIT	CHANNEL CHECK	CHANNEL CALIBRATION	ANALOG CHANNEL OPERATIONAL TEST	TRIP ACTUATING DEVICE OPERATIONAL TEST	ACTUATION LOGIC TEST	MASTER RELAY <u>TEST</u>	SLAVE RELAY <u>TEST</u>	MODES FOR WHICH SURVEILLANCE IS REQUIRED
6.	Auxil	iary Feedwater							•	1
	a. Ma	nual Initiation	N.A.	N.A.	N.A.	R	N.A.	Ν.Α.	N.A.	1, 2, 3
I		itomatic Actuation Id Actuation Relays	N.A.	N. A	N.A.	N.A.	M(1)	M(1)	Q	1, 2, 3
l		eam Generator Water evel-Low-Low	S	R	М	N.A.	N.A.	N.A	N. A	1, 2, 3
(	d. Sa	fety Injection	See Item	1. above for	all Safety I	njection Surv	eillance Req	uirement	S.	
	e. Lo	oss-of-Offsite Power	N.A.	R	N.A.	М	N.A.	N.A.	N.A	1, 2, 3
	su	ontainment Depres- mrization Actuation DA)	See Item	2. above for	all CDA Surv	eillance Requ	irements.			
7.	Cont	rol Building Isolation								(
	a. Ma	nual Actuation	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	A11
		nual Safety jection Actuation	N. A.	N.A.	N.A.	R	N.A.	N. A.	N.A.	1, 2, 3, 4
	Lo	utomatic Actuation ogic and Actuation elays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	Q	1, 2, 3, 4
		ontainment Pressure igh-1	S	R	Μ	, N.A.	N.A.	N. A.	N.A.	1, 2, 3

# TABLE 4.3-2 (Continued)

			ENGI	NEERED SAFET		TUATION SYSTE REQUIREMENTS		ATTON		
<u>FUNC</u> 7.		I <u>AL UNIT</u> trol Building Isola	CHANNEL <u>CHECK</u>	CHANNEL <u>CALIBRATION</u>	ANALOG CHANNEL OPERATIONAL <u>TEST</u>	TRIP ACTUATING DEVICE OPERATIONAL <u>TEST</u>	ACTUATION LOGIC TEST	MASTER Relay <u>Test</u>	SLAVE Relay <u>Test</u>	MODES FOR WHICH SURVEILLANC IS REQUIRED
. •	e.	Control Building Inlet Ventilation Radiation	S	R	М	N.A.	N.A.	N.A.	N.A. ·	<b>A11</b> (
8.	Los	s of Power								
	a.	4 kV Bus Undervoltage (Loss of Voltage)	N.A.	R	N.A.	М	N.A.	N.A.	N.A.	1, 2, 3, 4
	b.	4 kV Bus Undervoltage (Grid Degraded Voltage)	N.A.	R	N.A.	М	N.A.	N.A.	N.A.	1, 2, 3, 4
9.	Fea	ineered Safety tures Actuation tem Interlocks								
	a.	Pressurizer Pressure, P-11	N.A.	R	М	N.A.	N.A.	N.A.	N.A.	1, 2, 3
	b.	Low-Low T <sub>avg</sub> , P-12	N.A.	R	М	N.A.	N.A.	N.A.	N.A.	1, 2, 3
	c.	Reactor Trip, P-4	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3
	d.	Steam Generator Water Level, P-14	S	R	М	N.A.	M(1)	M(1)	Q	1, 2, 3
10.		ergency Generator Id Sequencer	N.A.	N.A.	N.A.	N.A.	Q(1, 2)	N.A.	N.A.	1, 2, 3, 4

MILLSTONE - UNIT 3

3/4 3-40

Amendment No. 14

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

#### SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

#### RELATED TO AMENDMENT NO. 14

TO FACILITY OPERATING LICENSE NO. NPF-49

NORTHEAST NUCLEAR ENERGY COMPANY, ET AL.

MILLSTONE NUCLEAR POWER STATION, UNIT NO. 3

DOCKET NO. 50-423

#### INTRODUCTION

By letter dated December 4, 1987, the Northeast Nuclear Energy Company (NNECO) proposed to revise technical specification section 3/4.3.2 to remove the chlorine detection system. 1

#### EVALUATION

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PDR

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The chlorine detection system was placed in the Control Building Ventilation System to assure the habitability of the control room in the event of an on-site chlorine release. The chlorine of concern was 55 tons (per unit) stored 434.3 m from the nearest control room air intake. The chlorination systems of Millstone Units 1, ? and 3 have been modified to use sodium hypochlorite solution instead of gaseous chlorine. Therefore, the on-site storage of liquid chlorine has been eliminated.

Chlorine rail traffic on the Amtrack right-of-way through Northeast Utilities property was a concern because of the close proximity to Millstone Unit No. 3 (1700 feet) and the large quantity of chlorine contained in a rail tank car (typically 55 tons). NNECO contracted Providence and Worcester Railroad (P&W) The to perform a Millstone Nuclear Power Station chlorine rail traffic study. results of this study indicated that there was no chlorine rail traffic on this right-of-way in 1986 and for the years 1983 through 1985 the average chlorine rail traffic was two carloads per year. Based upon the data obtained for the years 1983-1985, NNECO does not anticipate any increase in the chlorine rail traffic in the vicinity of the Millstone Station. However, in order to monitor any future changes, NNECO has contracted with P&W to provide NNECO with annual updates to the Millstone Nuclear Power Station Chlorine Rail Traffic Study through the year 1991. In the Millstone Unit No. 3 FSAR, NNECO determined that shipments of liquid chlorine by barge or truck will have no adverse impact on the safety of Millstone Station, due to the decreasing use of Long Island Sound as a shipping channel and the four mile distance of the nearest interstate highway from the site.

Pegulatory Guide 1.78 specifies that only frequently shipped hazardous chemicals need to be addressed in the plant design. Frequent shipments are defined in Regulatory Guide 1.78 as exceeding 10 per year for truck shipments, 30 per year for rail shipments, and 50 per year for barge shipments. The chlorine shipments identified above are below these thresholds.

NNECO has evaluated the potential effect of chlorine released from an off-site chlorine bulk storage facility and has determined that no hazard exists. The New London Water Treatment Facility was identified as a bulk storage facility of chlorine which utilizes two ton cylinders and is located four miles from Millstone Unit No. 3. Based on the small containers utilized and the four mile distance, the New London Water Treatment Facility does not represent a credible hazard to the Millstone Unit No. 3 Control Room (as per Regulatory Guide 1.78).

The Pfizer Pharmaceutical Company was also identified as a bulk storage facility of chlorine. This facility utilizes rail tank cars for chlorine storage and is located five miles from Millstone Unit No. 3. Regulatory Guide 1.78 states that "chemicals stored at distances greater than five miles from the facility need not be considered because if a release occurs at such a distance, atmospheric dispersion will dilute and disperse the incoming plume to such a degree that <sup>±</sup> there should be sufficient time for the Control Room operators to take appropriate action." Based on this principle, the Pfizer Pharmaceutical Company storage facility was evaluated and determined not to be a hazard to Millstone Unit No. 3.

In summary, based upon the elimination of on-site chlorine bulk storage, verification of low chlorine rail frequency, and the absence of potentially hazardous off-site chlorine bulk storage facilities, the elimination of the Millstore Unit No. 3 Technical Specification requirements for Control Building Ventilation System Chlorine Detectors is acceptable.

#### ENVIRONMENTAL CONSIDERATION

This amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously published a proposed finding that the amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

#### CONCLUSION

We have concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

2

Dated: February 16, 1988

Principal Contributor:

R. Ferguson