General Offices Seiden Street, Berlin Connecticut

N/JRTHEAST LITIL Massachusetts

Power Company Electric Company Northeast Utilities Service Company Northeast Utilities Service Company

P.O.BOX 270 HARTFORD. CONNECTICUT 06414-0270 (203)665-5000

Re: 10CFR50.73(a)(2)(iv) November 2, 1990 MP-90-1169

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

Reference: Facility Operating License No. DPR-21 Docket No. 50-245 Licensee Event Report 90-016-00

Gentlemen:

This letter forwards Licensee Event Report 90-016-00 required to be submitted within thirty (30) days pursuant to 10CFR50.73(a)(2)(iv).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

aco Stephen E Scace

Director, Millstone Station

SES/CW:mo

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PDR

Attachment: LER 90-016-00

T. T. Martin, Region I Administrator CC: W. J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1, 2 and 3 M. Boyle, NRC Project Manager, Millstone Unit No. 1

1622 Cut No 50109

US NUCLEAR REGULATORY COMMISSION					N	APPROVED OMB NO. 3150-0104 EXPIRES 4/30/92 Estimated burden per response to comply with this information collection request: 50.0 hrs. Forward comments regarding burden estimate to the Records and Reports Management Branch (p-530). U.S. Nuclear Regulatory Commission. Washington, DC 20555, and to the Paperwork Reduction Project (3150-0104). Office of Management and Budget. Washington, DC 20505										
FACILITY NAM	E (1)									DC	DOKET	NUMBI	ER (2)		PAG	GE (3)
	Millistone Nuclear Power Station Unit 1							0	151	0101	0 2	4 5	1 0	F 110		
TITLE (4) M	anual	Reacto	r Trip D	ue to Los	s of Cooling											
EVENT DAT	E (6)		LER JUM	BER (6)	REPORT DA	TE (7)			OTH	HERF	ACILIT	ES INV	OLVE	D (8)		
MONTH DAY	YEAR	YEAR	NUMBE	R NUM	MONTH DAY	YEAR		FACIL	ITY I	VAME	5		0]	5 0 0	0 0	11
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OPERATING		THIS RE	PORT IS B	EING SUBMIT	TED PURSUANT T	O THE REC	UIREMEN	ITS O	F 10	OFR	(One	ek ane	or mo	re of the	toliowin	01(11)
MODE (9)	N	20.4	02 (b)	T	20 402(c)		LX	50.73	(a) (2)	(IV) .				73 71(b)		
POWER		20.4	06(a)(1)()		50.36(c)(1)			50.73	a) (2)	(v)				73.71(0)		
LEVEL 1	0 0	20.4	06(a)(1)(i)		50.36(c)(2)	50.36(c)(2) 50.73.(a) 2)(v			(vii)	VII) OTHER (Spec			(Specity	in .		
		20.4	06(a)(1)(ii	0	50.73(a)(2)(i)			50.73	(a) (2)	(viii) (A)	Text. NRC Form 366A)				
		20 4	05(a)(1)(IV	, T	50.73(a)(2)(ii			50.731	(.) (2)		B)					
		20.4	05(a)(1)(iv		50.73(a)(2)(ii	1		50.7. (a) (2)	(x)						
	and a set of the second				LICENSEE CONT	ACT FOR	HIS LER	(11)								
NAME													TELEP	HONE N	UMBER	
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		00	MPLETE O	NE LINE FOR	EACH COMPONEN	IT FAILURE	DESCRIE	BEDIN	THIS	REP	ORT (3)				
CAUSE SYSTE	MOO N	PONENT	MANNER	C- REPORTA	OS COS	CAUSE	SYSTEM	COM	PON	ENT	MAN	NER	PP	NITIOS		
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On Octo power (5 Circulatir	ber 4. 30 de	1990 a grees F	t 1849. 1030 p	while reduced	ucing power du itiated because	uring sto of degr	rm con aded c	ditio ondi weed	ns. tion bui	a m s in ildur	anual the S	reac Servic	tor t e W	rip fro ater ar	m 459 nd	č

temperature/pressure increase was the direct consequence of degraded Reactor Building Closed Cooling Water heat exchanger performance. The Service Water system was restored via the Self Cleaning Strainer Bypass Valve. A cooldown to cold shutdown was accomplished with the remaining intact Traveling Screens, Circulating Water Pumps and Service Water Pumps. A subsequent reactor protection trip signal was received on low reactor water level. Reactor water level was immediately restored. All safety systems functioned as designed.

NR: 1 (6-89)	orm 366A	U.S. NUCLEAR REGUNSEE EVENT REPORT (LEI	R)	E - O au - A	stimated Informatic Iomments Ind Report Regulator Ne Paper Aanagem	APPF i burder in colle i regard rts Mar y Comr work Re ent and	ROVED C EXPIR n per res otion rec ding burg hagemen mission eduction b Budget	pons pons uest en e t Bra Was Proj Wa	NO 315 4/30/92 e to com 50.0 hr stimate t not (p-5 hington ect (315) shington	0-0104 ply with 5 Forw 10 the Re 30) U 5 DC 2055 0-0104) DC 205	this ard cords Nuo 5 and Office 03	lear 5 to e of
FACIL	TY NAME (1)		DOCKET NUMBER (2)		VEAD	IER	NUMBER	R (8)	REVISION		PA	GE (3)
	Millstone Nue Unit 1	clear Power Station	0 5 0 0 0 2	4 5	910	- 0	116	-	0 0	012	OF	110
TEXT (if more space is requ	ired use additional NRC Form 366A s) (17)									
1.	Description	of Event										
	On October reactor trip service wate condenser of At 1330 Of The Service continuous attached fig	4, 1990 at 1849, while red from 45% (530 degrees F, er pressures combined with i vacuum. High winds and he f Normal Procedure 514 "N Water Strainer was placed slow rotation. The following ures for additional informati	ucing power during 1030 psi) power wa ncreasing containme avy seas had been atural Occurrences' in the continuous b g chronology descrit on.	degr is init ent te build ', wa blowd bes th	aded w iated w imperating thr s enter own m he sequ	veath when tures ough ed w ode ience	er con Contr press the al hen w All s of ev	ditie ol C ure ftern inde cree ents	ons, a Operato s and noon o s excee ens we s. Refe	manua ors not decrea of Octo eded 3 re sele er to t	al ed lo sing ober 0 mj cied he	ow 4. ph. for
	1800	Alarms indicated one trave Four to five feet of debris manually cleaning 'E' trave other screens.	ling water screen ha had collected in fro ling water screen, h	ad gr ont of nowey	eater t the so ver difi	han a creen ferent	a 10 ir Ope tial pre	nch rate ssu	differe ors cor re was	ntial p nmenc increa	oressi ed asing	on
	1810	Maintenance personnel wer sluiceway provides a pathw being sprayed clear of the	re contacted to rem ay for the live retur traveling water scree	ove t n of ens.	he Scr fish ar	reen V nd cru	Wash i ustace:	Slui ins	ceway. to the	The sea at	iter	
	1825	Plant Equipment Operators screens were stopped by se	attempted to manu curing the Screen V	ally Vash	clean ' Pump	A' tr s to a	aveling	g wa blish	ater sci i this t	reen. ask.	All	
	1835	The Control Operator note 60"). A rapid power redu instructed to restart all scre	d all screen differer ction was initiated. eens.	ntial j Oper	pressur ators a	es ar it the	e off s Intak	e S	e high tructur	(great e were	er th	ian
10.0	1836	Condenser Vacu alarme	d at 27.3 inches of	Hg.								
	1837	Service Water pressure was	9.6 psig.									
		Note: This data point was general interest and to supp	taken from Compu port the analysis pro	ter lo ovide	ogs afte d later	er the in th	even ne disc	t. It ussi	is pro	vided	for	
	1838	In response to off scale hig tripped 'A' and 'D' Circula operate. ('B', 'C', 'E' traveli associated differential press	th traveling screen c ating Water Pumps, ing screens were bre sure and failed to re	differ Ass eache otate	ential p ociated d by t	bressu d scre he ac	ure the ens 'A cumul	ate	ontrol ind 'D d debr	Cperat began is and	tor n to	
	1839	The Service Water Strainer Room. (Debris passed three	r high differential pr ough the failed scre	essur ens r	re alari eached	m wa i the	s rece Self C	livec	l in the ning Si	e Cont trainer	rol .)	
	1839-1847	Control Operators stopped differential pressure and se	and restarted Circu aweed load on trav	lating eling	Wate screen	r Pur	nps in	an	effort	to rec	luce	
	1841	Condenser vacuum was 25 Service Water pressure was Reactor Power was 70% <u>Note</u> : These data points we	.5 inches of Hg. 5 1.6 psig. ere taken from Com	npute	r logs .	after	the ev	ent	. It is	provid	ded i	for
	1845	general interest and to sup Reactor was power 50% an Circulating pump and trave screen motor breakers wer water pressures and flows v	port the analysis pro d decreasing. ling screen condition e tripped open on a were low.	ovide ons w faul	d later ere no t cond	in th t imp ition,	roving Circu	, 'B lati	ion. '.'C'.'I ng Wa	D' Tra ter pui	velin mp s	g eal

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NRIC Form 386A (6-89)	U.S. NUCLEAR RE	GULATORY COMMISSION	APPROVED CMB ND. 316C-0104 EXPIRES 4/30/92
	LICENSEE EVENT REPORT (L TEXT CONTINUATION	.ER)	Estimated burden per response to comply with this information collection request 50.0 hrs. Forward comments regarding burden estimate to the Records and Reports Management Branch (p=530). U.S. Nuclear Regulatory Commission: Washington, DC 20555, and to the Paperwork Reduction Project (3150-0104). Office of Management and Budget, Washington, DC 20503
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)
Millstone Unit 1	Nuclear Power Station	0 5 0 0 0 2	4 5 9 0 9 11 6 0 0 0 3 OF 1 0
TEXT (If more space is	s required, use additional NRC Form 3664	(17)	
1. Descrip	stion of Event (Continued)		
1847	A high drywell pressure a drywell through the Stand	alarm was received. T dby Gas Treatment Sy	he Control Operator began venting the stem.
1848	Control Operators noted started to improve heade	Service Water pressur r pressure.	e at 7 psig. 'C' Service Water pump was
1849	A manual reactor scram Drywell Pressure - 1.42 ((1.1)	was initiated. psig increasing psig normal)	
	Drywell Bulk Temperatur	e - 142 degrees F inc (130 degrees F nc	reasing (rmal)
	Reactor Building Closed (Heat Exchanger discharge	Cooling Water e - 110 degrees F inc (72 degrees F nor	reasing mal)
	Note: These data points general interest and to su	were taken from Comp apport the analysis pro	puter logs after the event. It is provided for vided later in the discussion.
1850	Group 2 and Group 3 co Reactor Water Level sign	ntainment isolations a al (normal level respo	ctuated at 8 inches Narrow Range Yarway nse following void collapse).
1854	Control Operator reset th	ne Reactor Scram.	
1902	Drywell pressure peaked	at 1.48 psig.	
	Note: This data point war general interest and to su	s taken from Compute apport the analysis pro	r logs after the event. It is provided for vided later in the discussion.
1907	Reactor Water Low level Yarway reactor water lev-	alarm was received in el)	the Control Room. (20 inches Narrow Range
1909	PEO restored Service Wa (1-SW-19).	ater pressure by openir	ng the Service Water Strainer Bypass Valve
1909	Reactor Protection System Group 2 and Group 3 co Reactor Water level. Control Operator restore	n trip signal was receiv intainment isolations a d level by starting a R	/ed on Low Reactor Water Level. ctuated at 8 inches Narrow Range Yarway eactor Feed Pump.
1911	Control Operator reset th	ne Reactor Scram.	
1912	Drywell Bulk Temperatur Senior Control Operator taken.	e peaked at 155 degreentered EOP 580 and	ees F. verified that required actions had been
A coold Pumps Strainer	down was initiated with the intr using the Main Condenser. S r Bypass Valve (1-SW-19). T	act 'A' and 'D' Trave ervice Water remainec "he plant achieved Col	ing Screens and associated Circulating Water available during the period through the d Shutdown on October 5, 1990 at 1835 hrs.

NRC F	orm 366A U.S	NUCLEAR REGULATORY COMMISSIO'	APPROVED OMB NO. 3160-0104
	LICENSEE EVENT P TEXT CONTIN	REPORT (LER) NUATION	Estimated burden per response to comply with this information collection request 50.0 hrs. Forward comments regarding burden estimate to the Records and Reports Management Branch (p=530). U.S. Nuclear Regulatory Commission, Washington, DC 20555, and to the Paperwork Reduction Project (3150=0104). Offlice of Management and Plaget, Washington, DC 20503.
FACIL	TY NAME (1)	DOOKET NUMBER (2)	LEF (JUMBER (6) PAGE (3)
	Millstone Nuclear Power Stat Unit 1	tion 0 6 0 0 0 2	4 5 5 0 0 1 1 6 0 0 0 4 OF 1 0
TEXT (If more space is required, use additional h	JRC Form 366A \$) (17)	
П	Cause of Event		
	The root cause of this even System Cleaning capability an incoming tide combined screen wash system, debris	nt was that the Traveling Screen during severely degraded weathe I to create a condition where the sluiceways) was unable to handle	fouling rate exceeded the Screen Wash r conditions. On shore winds, high seas and debris removal equipment (traveling screens, e the debris volume.
	Contributing Causes:	Plant Equipment Operators traveling screen with the Co securing the Screen Wash P Control Room Operators we differential pressure indication and 'D' Circulating Water P	did not coordinate cleaning of the 'A' ntrol Room. All screens were stopped by 'umps to accomplish this task. Therefore, re not confident of the off scale screen on. Control Operators elected to trip only 'A' 'umps.
	The Root Cause for the se- establishing a valve lineup timely manually controlled Range GEMAC instrument	cond Reactor Protection System ' which maintained the Feedwater injection of feedwater when leve s.	Trip (Low Reactor Water Level) was that Coolant Injection System operable impacted I was less than 30 inches on the Narrow
	Contributing Cause:	The published low water lev Yarway Reactor Water level setpoint can conservatively s Range Yarway Reactor Wate by his belief that the low wa	el scram setpoint is 8 inches Narrow Range , however the actual low water level scram set as high as 12 inches indicated Narrow er level. The operator actions were influenced ater level RPS trip would occur at 8 inches.
Ш.	Analysis of Event		
	At 1800 on October 4, 199 Cleaning Rate during seven tide combined to create a system, debris sluiceways) of in manual cleaning of the tr interior of the screen houst been informed of the new pressure rapidly increased, instruments off scale high, traveling water screens were the off scale differential pr Procedure 323. 'A' and 'D the associated screens. 'B' bays and increasing different The level decrease cavitate support structure yielded to 'B'.'C' and 'E' bays of the the Service Water pump suppression	90 the Traveling Screen fouling r ely degraded weather conditions, condition where the debris remov- were unable to handle the debris traveling water screens elected to ings for manual debris removal, screen status. As debris continu Control room personnel observe A rapid decrease in reactor pow e greater than 75% fouled at this essure and did not elect to trip a 0' Circulating Water Pumps were and 'C' Circulating Water Pump ntial pressure on 'B' and 'C' screen d the operating Service Water Pump to the strain. 'C' Circulating Water Intake Structure reflooded, end inctions. Seaweed (Genus Codium expelled by the strainer blowdown	ate exceeded the Screen Wash System On shore winds, high seas and an incoming val equipment (traveling screens, screen wash volume. Plant Equipment Operators engaged stop all screens to provide access to the At this time the Control Operator had not ed to collect the traveling screen differential red all five traveling screen differential pressure wer was initiated. It is believed that the time. Control Room personnel questioned all Circulating Water Pumps per Operating stopped at 1838 hrs. relieving the strain on os continued to pump, lowering level in the een as well as the interconnected 'E' screen. imps. 'B','C' and 'E' screen baskets and er Pump was stopped and started and the ing the cavitation but, introducing debris to a) then fouled the Service Water Self Cleaning n.

(0-00)	LICENSEE EVENT REPORT (TEXT CONTINUATION	SGULATORY COMMISSION	APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 Estimated burden per response to comply with this information collection request. 50:0 hrs. Forward comments regarding burden estimate to the Records and Reports Management Branch (p+530). U.S. Nuclear Regulatory Commission, Washington, DC 20555, and to the Repervork Reduction Project (3150-0104). Office of Management and Budget. Washington, DC 20503							
FACILIT	Y NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3							
	Millstone Nuclear Power Station Unit 1	0 5 0 0 0 2 4	5 9 0 0 1 6 0 0 0 5 OF 1							
EXT (H	Analysis of Event (Continued)	A s) (17)								
	(Codium is not native to North Ame It experiences high productivity durin water column, when not attached to the pore diameter of the Service Wa Divers participating in the repair of c bottom local to the facility.)	rica, introduced around 1 ng the late summer month its holdfast. The cross so ter Strainer, plugging a hi damaged equipment also r	1955 it is expanding its domain in this area. hs. <i>Codium</i> is buoyant, free floating in the section of this marine plant closely matched ligh percentage of the strainer basket. reported large masses of seaweed on the sea							
	The low Service Water Pressure redu capacity. These heat exchangers are Temperature and Pressure began to a Control Room. The drywell was ven evaluation of the containment pressu Control Room. An additional service Scram was initiated at 1849 hrs. Serv Water Strainer Bypass Valve.	iced Reactor Building Clo located at the 42'6" ele increase and a high Dryw itec, through the Standby re increase, Service Wate e water pump was started vice Water pressure was r	osed Cooling Water Heat Exchanger evation of the Reactor Building. Drywell vell pressure alarm was received in the Gas Treatment System. During the er pressure was observed to be 7 psig in the I to increase header pressure. A Manual restored by throttling open the Service							
	If all circulating water pumps had be 'B','C' and 'E' may not have been be containment temperature/pressure inco associated Reactor Scram would still delayed because the Control Room p stopped for cleaning. This complicat differential pressure indications were eventually threatened the operation of personnel were successful in maintain and throttling the Service Water Stra	en tripped on increasing breached. Service Water creases would not have of have occurred. The dec bersonnel were unaware th ted the decision while the considered. Delays in tr of the Service Water syste hing the Service Water sys- lincr Bypass Valve.	differential pressure, traveling screens Strainer fouling and the associated courred, however a Turbine trip and histon to trip Circulating Water Pumps was hat all traveling water screens had been e legitimacy of the simultaneous off scale ripping 'B' and 'C' Circulating Water pumps em. However, Operations and Maintenance istem functional by cleaning heat exchangers							
	This event had the potential to result to a condition where available flowra Water System provides cooling to the Exchangers and to the Diesel Genera provides a long term source of coolin LOCA and non-LOCA conditions (r Procedures 524D "Loss of Service W operator guidance for more severe en Strainer Bypass Valve maintained ser event such that adequate cooling ren	t in degradation of the Se ites from those systems co e Turbine and Reactor Bu ator Heat Exchangers. T ng water to remove heat f refer to the attached syste vater", and 525G "Degra vents of this type. In this rvice water h uder pressuin nained available.	ervice Water and Emergency Service Water ould have been ineffective. The Service uilding Closed Cooling Water Heat 'he Emergency Service Water System from the Suppression Pool during both em diagrams). Millstone One Off Normal ided Fire in the Intake Structure", provide s case, operation of the Service Water re and flow to heat exchangers during the							
	A loss of Service Water & Emergency Service Water is an event considered to be outside the design basi for Millstone One. Postulating the concurrent occurrence of a LOCA in addition to the loss of Service Water/Emergency Service Water event is not required from a design basis perspective.									
	Both the Gas Turbine Emergency Generator and Isolation Condenser remained unaffected by the event, and were available at all times to provide decay heat removal capability and emergency power. Therefore, the safety significance of this event is minimal.									
	A second Reactor Protection System (RPS) trip on low reactor water level was received at 1909 hrs on October 4, 1990. This Emergency Safety Feature actuation was not separately reported on October 4, 1990 as it was considered part of the overall event. It is discussed here in relation to this event as this RPS actuation was an integral part of the recovery from the transient.									

NRC For (6-89)	m 366A U.S. NUCLEAR F	REGULATORY COMMISSION	APPROVED OME NO. 3150-0104 EXPIRES 4/30/92				
	LICENSEE EVENT REPORT (TEXT CONTINUATION	(LER)	Estimated burden per response to comply with this information collection request 50.0 hrs Forward comments regarding burden estimate to the Records and Reports Management Branch (p=530) U.S. Nuclea Regulatory Commission, Washington, DC 20555 and t the Repervork Reduction Project (3150-0104), Offlice of Management and Burget Washington, DC 20503	ar IO D1			
FACILITY	Y NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE	E (3)			
	Millstone Nuclear Power Station Unit 1	0 6 0 0 0 2 .		110			
TEXT (8)	more space is required, use additional NRC Form 36	6A \$) (17)					
III.	Analysis of Event (Continued)						
	Following a scram the level control Feedwater Regulation Valves open. ensuing overshoot of the level control Operators are trained to sequentially From this point on, pressure control Main Condenser lowered reactor wa Drive cooling water flow. The Cont the Feedwater System, closing one F Feedwater Regulation Valve to many	system responds to redu This coincides with dec ol system must be mana secure Reactor Feed P and decay heat remova ter level while make up rol Operator upon recei Feedwater Regulation Iso ually control the rate of	ced level from void collapse, and the reased steam production post-scram. The ged by the Control Operator. Control umps to terminate the increasing level trend al via the Main Turbine Bypass Valves and was limited to 50 gpm from the Control Ro ving the low level alarm proceeded to line to olation Valve and selecting the other injection per the Operating Procedure 316	d. od up			

"Feedwater System". While waiting for the Feedwater Regulation Isolation Valve to close, the RPS trip signal was received. The Technical Specification Low Reactor Water Level RPS trip is 8 inches. This setpoint can be conservatively set as high as 12 inches indicated. As left setpoints for this RPS trip would have resulted in a scram at 10 inches reactor water level. Instrument drift between calibrations is on the order of one-half inch and no greater than 1 inch during typical calibration intervals. A Reactor Feed pump was started and level was immediately restored and the RPS trip was reset. The safety significance of this event is minimal in that the Control Operator was standing by in control of reactor water level when the RPS trip was received and all Emergency Core Cooling systems were available to respond to a more severe level transient.

This event is reported in accordance with 10CFR50.73(a)(2)(iv), any event or condition that results in manual or automatic actuation of an Engineered Safety Feature. Immediate notifications were performed in accordance with 10CFR50.72(b)(2)(ii).

IV. Corrective Action

The Circulating Water Pump trip logic was modified to reinstate a 30 inch screen differential pressure trip. Operating Procedure 323 "Circulating Water System", was revised to instruct Control Operators to verify Circulating Water Pump trips at 30 inch screen differential pressure.

Off Normal Procedure 514A, "Natural Occurrences" will be revised to terminate Screen Wash debris/fish return capability and begin intercepting debris cleaned from the Traveling Screens at sustained winds of greater than or equal to 30 mph. This is to minimize the debris load in front of the Intake Structure during degraded weather conditions.

Additional guidance has been communicated to the Operations staff should winds approach 30 mph., including:

- a) Request an updated weather report.
- b) Place service water strainer in manual blowdown.
- C) Increase watch frequency at the intake structure.
- d) Remove sluiceway and put trash baskets in place.
- Make arrangements for Maintenance support of trash basket and heat exchanger cleaning. e)
- f) Make arrangements for additional Plant Equipment Operator (PEO) support.
- As directed in OP 514A Natural Occurrences, if loss of Circulating Water Pumps is (g) imminent, quickly lower power to minimum speed of Recirculation Pumps.

A design review has beer, commissioned to evaluate Traveling Screen performance in severe weather with respect to debris removal methods and equipment.

(6-89)	rm 366A Li	ICENSEE EVENT REPORT (TEXT CONTINUATION	LER)	APPROVED OMB NO 3150-0104 EXPIRES 4/30/92 Estimated burden per response to comply with this information pollection request 50.0 hrs. Forward comments regarding burden estimate to the Records and Reports Management Branch p+530.0 U.S. Nuclear Regulatory Commission. Washington, DC 20555, and to the Paperwork Reduction Project (3150-0104), Office of Management and Budget Washington, DC 20503							
FACILIT	Y NAME (1)		DOOKET NUMBER (2)	LER NUMBER (6) PAGE (3)							
	Millstone ! Unit 1	Nuclear Power Station	0 6 0 0 2 4	4 5 9 0 0 1 6 0 0 0 7 0F 1 0							
EXT (II	more space is i	required, use additional NRC Form 366	5A s) (17)								
IV.	Correctiv	ve Action (Continued)									
	The Ope personne	The Operations Manager will review plant operating philosophy with the Operations Department personnel on the following subjects. This activity is in progress and will be completed by 12/15/90.									
	a)	a) The operators use and belief of instrumentation with appropriate confirmation.									
	b)	b) The operators use of effective communication during normal and abnormal conditions with emphasis on informing the Control Room when changing equipment status.									
	c)	c) The importance of conservative decision making. This review will focus on strengthening existing philosophy and assuring the Operations staff that this philosophy is supported by Station Management.									
	The Operator Training Department has been requested to evaluate this event and provide an assessment from a training perspective.										
	A review of past Millstone One design changes will be conducted to ensure that any protective trip functions previously removed have no significant impact on plant safety or reliability.										
	A review reactor v efficientl	v of Operating Procedure 31 water level response post-scr ly.	6 "Feedwater System" am and provide the ope	will be conducted. This review will evaluate erator actions required to control level more							
V	Addition	al Information									
	The following attachment and information is being provided to identify the system and components affected by the event.										
	EIIS Co	des									
	Systems		Components								
	Circulati	ng Water System – KE	Pumps - P								
			Traveling Water Screens - SCN								
			Condenses	COND							
			Condenser - COND								
	Emergen Water Sy	ystems – Bl	Service Water Strainer - STR								

NRC Form (6-89)	U.S. NUCLEAR REGULATORY COMMISSION				APPROVED OMB NO. 3150+0104 EXPIRES: 4/30/92 Estimated burden per response to comply with this information collection request 50.0 hrs. Forward					
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FACILITY	NAME (1)		DOOKET NUMBER (2)	VEAR BOOM	MBER (6)	PAGE (3)				
NU	Millstone Nuclear Po Juit 1	ower Station	0 5 0 0 0 2	4 5 9 0 - 0		OF 110				
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	K	8 . 8	8 8	8 K	X					
	" D"	" C"	"E" Screen	" B"	" A"					
	"D" Screen	"C" Screen		"B" Screen	"A" Screen					
		(D SW)	D B ESW	C Sw						
		(B) Screen Wash	Pumps C A	Screen Wosh						
		\bigcirc		B	A					
	Circ	Circ		Circ	Circ					
			ON SW							
	Intake Structure									
	Figure 1									

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