

The Connectiout Light And Power Comp Western Massachusetts Electric Compa Molyobe Water Power Cumpany Northeast Utilities Service Company Northeast Nuclear Energy Company General Offices Selden Street, Berlin Connecticut

P.O.BOX 270 HARTFORD, CONNECTICUT 06141-0270 (205)365-5000

December 4, 1992 MP-92~1280

Re: 10CFR50.73(a)(2)(iv)

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

Reference: Facility Operating License No. NPF-49 Docket No. 50-423 Licensee Event Report 92-027-00

Gentlemen:

This letter forwards Licensee Event Report 92-0.27-00 required to be submitted within thirty (30) days pursuant to 10CFR50.73(a)(2)(iv), any event or condition that resulted in manual or automatic actuation of any Engineered Safety Feature (ESF), including the Reactor Protection System (RPS).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

Hephen y Jeace Stephen E. Sc. e.

Vice President - Millstone Station

SES/JSY:dlr

Attachment: LER 92-027-00

 C: T. T. Martin, Region I Administrator
 P. D. Swetland, Senior Resident Inspector, Millston, ¹ Init Nos. 1, 2 and 3 V. L. Rooney, NRC ¹ roject Manager, Millstone Unit Not. 3

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| 13RC Form 366 (6+89) | V B NUC | EAR REGULATORY COMMISSION | APPROVED OME NO. 3150-0104 EXPIRES: 4 '30/RE | | | | | | |
|--|---|--|--|---|--|--|--|--|--|
| | ENSEE EVENT REPOR | Estimated turden per respon- information poliestion request comments regarding hurden and Reports Management Br Regulatory Commission. Wa the Raperverk Reduction Pin Management and Budget. W | I 50.0 kms. Porward estimate to the Records anot (p=530), U.S. Nubleat shington, DC 20565 and to open (3150-0104), Office of | | | | | | |
| FACILITY NAME (1) | Millstone Nuclear Pow | er Station Unit 3 | DOCKET NUM | | | | | | |
| TALE (4) Reactor | Trip Due To Loss of 1 | Son-Vital Power | | and the land of the state | | | | | |
| EVENT DATE (6) | LER NUMBER (B) | AEPORT DATE (7) | OTHER FACLITES P | NOLVED (B) | | | | | |
| RABY YAG HTMOM | | MERN MONTH DAY YEAR | FACLITY NAMES | 0 6 0 0 0 1 | | | | | |
| 110592 | 9 2 0 2 7 | 0 0 1 2 0 4 9 2 | | 0 5 0 0 0 1 | | | | | |
| MODE IN 1 | THIS REPORT IS BEING SUB | MITTED PURBUANT TO THE REO. | JIREMENTS OF 10 CFR & CONSIST OF | e of more of the following)(11) | | | | | |
| No.2152 (M) | 141 \$0A. 0\$ | 20.402(0) | 50 78(a)(2)(iii) | 73.75(0) | | | | | |
| TOWER LAND | 20.4(8)(x)(1)() | 50.50(6)(1) | 5Q.73(a)(2)(v) | 70.71/d1 | | | | | |
| UEVEL 0116 | 20.405(a)[1](i) | 50.36(a)(2) | 50.73.(k)(2)(v0) | Abstract beidw and in Text, NRC Form 366A1 | | | | | |
| | 20.406(a)(11(ii) | \$0.73(a)(Z)(I) | 50.73(A)(2)(viii)(A) | TERE, 29/50 PD/01/JDRM | | | | | |
| | 20.405(4)21(0) | 80.73 (a) (21(1)) | 785.73(\$1(\$)(\$)(viii)(\$) | A statistical statistical | | | | | |
| | 20.405081(1).0VI | 50 73(a)(2)(0) LICENSEE CONTACT FOR TH | 50.73(a)(2)(s) | | | | | | |
| NAME | | LIGENBER GURTAGT FOR T | NELET 1122 consistent and prove where the | TELEPHONE NUMBER | | | | | |
| | | 1.44 | AREA COL | | | | | | |
| Jeiney S. Yo | nung, Engineer, Ext. 6 | 442 | 24013 | 4 4 7 - 1 7 9 1 | | | | | |
| | COMPLETE ONE LINE F | OR EACH COMPONENT FALURE I | DESCRIBED IN THIS REPORT (13) | | | | | | |
| CAUSE SYSTEM COMP | ONENT MANUFAC- | CAUSE 6 | LYSTEM COMPONENT MANUFAL TURER | FEPORTABLE TO NEEDS | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | BUPPLEMENTAL REP | PORT EXPECTED (14) | EXPECT | PABY YAG HTMOM | | | | | |
| YES (If yes, comp | INTE EXPECTED BUBMISSION | OLI X GTAG | DATE | | | | | | |
| the second s | and the second se | Lifteen single-space typewritten li | next (16) | an a | | | | | |

At 1630 on November 5, 1992, with the plant in Mode 1 at 16% power, an electrical fault protection signal in the zone between the generator and the switchyard resulted in a generator trip, turbine trip and reactor trip.

The cause was a spurious signal from one of two protective relays. Improper operation of either relay could not be repeated. A management review of these possible causes and actions to resolve them was conducted before startup was authorized. A Feed Water Isolation actuation occurred due to low Reactor Coolant System temperature. No other Engineered Safety Feature (ESF) signals were initiated or required and the event posed no significant hazard to the health and safety of the public.

| NRO P((8-82) | 9777, 306A. | U.S. NUCLEAR REGULATORY COMMISSION | ARPROVED OMB NO. \$160-0104 EXPIRES 4/30/92 |
|------------------|---|---|--|
| а . к | , LICENSEE E TEXT | EVENT REPORT (LER) CONTINUATION | Estimated burden per response to domply with this internation collection request \$6.0 hrs. Forward comments regarding burden estimate to the Reports and Reports Management Branch (p.530). U.S. Nuclear Regulatory Commission, Washington, DC 20655, and to the Raperwork Republic Project (3155-0104). Office of Management and Budget, Washington, DC 20653. |
| PADLO | re histole (1) | DOOKET NUMBER (P) | LER MURABER (6) PAGE (3) |
| | Millistone Nuclear Po Unit 3 | over Station | NUMBER NUMBER |
| TEXT (P | more space is required, use i | additional NRC Form 366A \$) (17) | daar daar daar da cadaa adaa adaa adaa daaraha cadaan daaradaan ee daan ee daan ee daara |
| L. | Description of Eve | nr. | |
| | 2260 psia) un elec | | at 16% power (562 degrees Fahrenheit and between the generator and the switchyard |
| | control rods were occurred due to lo expected system re plant was stabilized | fully inserted, and that neutron flux was w Average Reactor Coolant System tem sponse. No additional Engineered Safe | r Trip and Bypass Breakers were open, that all s decreasing. A Feed Water Isolation actuation perature following the trip. This was an ety Features were required or initiated. The n of electrical power to non-vital busses and tration. |
| | | ified within 24 hours of a loss of either | ar and the Emergency Diesel Generator oil site power source as required by Technical |
| | site via the Norma unavailable followi Service Transforme 4160 volt busses | I Station Service Transformers (NSSTs) ng the event, internal plant loads were a ers (RSSTs). This alignment does not a Non-vital 4160 busses provide power to ds. The 6.9 KV busses, supplying pow | pplied from either the main generator or off Since both supply sources to the NSST were automatically aligned to the Reserve Station automatically supply power to the non-vital o the rod control motor generator sets, and er to condensate and reactor coolant pumps. |
| | | imps tripped on current overload as a magnetion, the pumps were satisfactorily | esult of the transfer from the NSSTs to the started and operated. |
| | Investigation deterr | it pump tripped during the transfer. The mined that mechanical shock to a contr The pump was satisfactorily started and | ict in the locked rotor logic caused a spurious |
| | of equipment vital | to plant safety. However, the loss of | functioned satisfactorily to maintain operation non-safety related equipment impacted the vater pumps caused a loss of condenser vacuum. |
| | | | |
| Н. | Cause of Event | | |
| | The root cause inv likely causes. The | | on signal reduced the possibilities to two most |
| | have activated that a target v be established | I the electrical fault signal. This is believes received on this relay. However, a | plant in the station's 345 KV switchyard could eved to be the most likely cause due to the fact n explanation of why this relay actuated cannot de on the generator and there would be other |
| 127.5 | | | |
| 12.7 | | | |
| 1.1 | | | |
| 1.5 | | | |

| LICENSEE EVENT REPORT (LER) | | | APPROVED DIME NO. 3150-0104 EXPIRES 4/30/92 Estimated burden per response to comply with this intermation collection request 50.0 hrs. Forward comments request 50.0 hrs. Forward and Reports Management Branch (p. 530). U.S. Nucleet Regulatory Commission, Washington, DC 20555, and to the Repervent Reduction Project (3150-0104). Office, of | | | | | | | | | | |
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| FACE TV HAME (1) | IN NAME IN | | | the Paperwerk Reduction Project (3150-01)41 Office of Management and Budget, Wash igton, DC 20503 LEB NURSEE (6) PAGE (3 | | | | | | | | | |
| | | | | | | ENTIAL ABER | | REVERON | | | | | |
| Millstone Nuclear Power Station Unit 3 | 0 5 0 0 0 4 | 12 13 | 9.1 | 2 | | 01 | 21 | - | 0 | 10 | 01. | OF | 0 4 |
| TEXT IP more space is required, use address MRC Form 365 - An unbalanced capacitance pro | (ACA) (17) | | | | | | | | | | | | |

This event is being reported in accordince with 10CFR50.73(a)(2)(iv) as any event or condition that resulted in automatic actuation of an ESF including the Reactor Protection System. An immediate notification was made in accordance with 10CFR50.72(b)(2)(ii)

All safety systems functioned as designed as a result of the teactor trip. A Feed Water Isolation ESF actuation occurred as expected following a trip. No other ESF signals were initiated and the event posed no significant hazard to the health and safety of the public. The loss of non-vital power for approximately 20 minutes delayed establishing normal shutdown conditions for secondary systems. An inspection was performed on equipment that could be affected by the transient, no damage was observed. Secondary plant equipment was returned to normal operation, and the unit was returned to power.

IV. Corrective Action

Concerning the suspected "Out-Ol-Step" relay actuation, action was taken during subsequent plant start up to defeat the relay up to approximately 20% thant power levels. The relay protection provides electrical system stability when the unit is operating at high power output. This relay is located in the station's 345 KV switchyard. With the relay defeated, the parameters sensed by the relay were monitored in an attempt to determine if spunous signals may be experienced at the lower plant power levels. No abnormalities were found. This action will be repeated for future start ups as part of the continuing effort to determine why this relay may have actuated. The relay was verified to be correctly calibrated as part of the pre-start up review.

Concerning contacts between the line phases and their associated capacitors, a design change is being pursued to replace the spring finger arrangement with a newer design utilizing a spring mounted plate arrangement. Additionally, the faulty target on ground relay has been repaired.

Prior to restart, a visual inspection of the generator line and its connected components was performed. No external signs of damage of the 345 KV switchyard, transformers or generator were found. Additionally, oil samples of the main transformers and the NSSTs indicated that no fault occurred in any of the transformers.

| NRC P | orm, 366A | EAR REGULATORY COMMISSION | ARRPOVED OMB NO 3150-0104 EXPIRES 4/30/82 | | | | | | | | |
|-----------------|---|---|--|--|--|--|--|--|--|--|--|
| • | . LICENSEE EVENT REPO TEXT CONTINUAT | | Extended w/der 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 Raperwork Reduction Project (3150-0104). Office of Management and Budget, Washington, DC 20503. | | | | | | | | |
| FACILI | TY NAME (1) | DOCKET (JUMBER (2) | LER NUMBER (6) PAGE (3) | | | | | | | | |
| | Millstone Nuclear Power Station Unit 3 | 0 5 0 0 0 4 2 | NUMBER NUMBER | | | | | | | | |
| TEXT | more eparte is required, use additional NRC Fr | pm 966A (c) (17) | a har da an har da an da a | | | | | | | | |
| ∇_{τ} | Additional Information | | | | | | | | | | |
| | Other Licensee Event Reports interruption of non-vital power | | mitted for reactor trips resulting from an | | | | | | | | |
| | LER Number | Title | | | | | | | | | |
| | 91-014 | Reactor Trip Due To St | witchyard Relay Malfunction | | | | | | | | |
| | -88-028 | Reactor Trip Due To Lo Procedural Deficiency | oss of Normal 4160 Volt Bus Due To | | | | | | | | |
| | to ground fault on a 345 Ky di | stribution system line externa | bsequent turbine trip occurred due to a phase if to the plant in combination with a faulty raint tap on the switchyard pilot relay. | | | | | | | | |
| | In response to the June 1991 t secondary plant after a loss of trip occurred, the effectiveness | non-vital 4160 colt power. I | made to reduce the challenges to the Due to the low power at which the current be verified. | | | | | | | | |
| | During the trip on June 9, 1991, power was lost to the Reactor Plant Component Cooling Water System. As a result, steam from the main condenser air ejectors caused the fire dampers in the Secondary Leak Collection and Release System (SLCRS) to close. The fusible links were upgraded from 165 degrees Fahrenheit to 285 degrees Fahrenheit. After the current loss of power event, both trains of SLCRS were verified to be operable. | | | | | | | | | | |
| | Control Rod Drive Mechanism CRDMs. The root cause was p | (CRDMs) was de-energired procedural inadequacy for sta og used to supply all 4160 vol | ed when one of the power supplies to the and the other failed to maintain power to the irting and paralleling the diesel to a vital 4160 dt busses. Because the root cause is different, ad the current event. | | | | | | | | |