# LICENSEE EVENT REPORT

U.S. NUCLEAR REGULATORY COMMISSION

CONTROL BLOCK / / / / / (1) (PLEASE PRINT OR T	TYPE ALL REQUIRED INFORMATION)
$\frac{11}{\text{LICENSEE CODE}} \qquad 1000-100000000000000000000000000000000$	$\frac{1}{1} \frac{1}{1} \frac{1}$
$\frac{11}{11}$ REPORT /L/ (6) /0/5/0/0/3/3/9/ (7) /1/2/1/	(1/8/0) (8) $(0/1/0) (8/1/(9))$
SOURCE DOCKET NUMBER EVENT DA	TE REPORT DATE
EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)	
/2/ / On December 11, 1980 while operating in mode 1 a	it 25% power it was discovered /
/3/ / that non conservative constant were entered int	to the FQ survey program which /
14/ / was used to verify FZ within _imits on 11-29-80.	This event reportable /
5/ / pursuant to T.S. 6.9.1.9.c.	/
6/ /	/
(7) /	/
/8/ /	/
SYSTEM CAUSE CAUSE CODE CODE SUBCODE COMPONENT CODE	COMP. VALVE SUBCODE SUBCODE
9/ /R/C/ (11) /A/ (12) /C/ (13) /Z/Z/Z/Z/Z/(14)	$\frac{2}{2}$ (15) $\frac{2}{2}$ (16)
LER/RO EVENT YEAR REPORT NO. CODE	TYPE NO.
(17) REPORT	
NUMBER $\frac{18/0}{1-1}$ $\frac{11/0}{1}$ $\frac{1}{1}$ $\frac{10/3}{1}$	<u>/L/ /-/ /0/</u>
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F/(18)/G/(19)/7/(20)/7/(21)/0/0/0/(22)/Y/	(23) $/N/$ (24) $/N/$ (25) $/W/1/2/0/$
$\frac{F}{(18)} \frac{G}{(19)} \frac{Z}{(20)} \frac{Z}{(21)} \frac{00000}{(000)} \frac{22}{(22)} \frac{Y}{(22)}$	(23) $/N/$ (24) $/N/$ (25) $/W/1/2/0/$
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/F/ (18) /G/ (19) /Z/ (20) /Z/ (21) /0/0/0/ (22) /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/ / The incorrect constants were entered by the comp         1/ / changeut. The original data was dumped on tape         2/ / reloading. Upon discovery, the corrected FQ sur         3/ / survey update were entered and subsequent FQ sur         4/ /	(23) <u>/N</u> / (24) <u>/N</u> / (25) <u>/W/1/2/0</u> / <u>uter technician after a disc</u> / <u>and an old tape was used when</u> / <u>vey constants per most recent</u> / <u>veys were satisfactory.</u> /
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/F/ (18) /G/ (19) /Z/ (20) /Z/ (21) /0/0/0/ (22) /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/ / The incorrect constants were entered by the comp         1/ / changent. The original data was dumped on tape         2/ / reloading. Upon discovery, the corrected FQ sur         3/ / survey update were entered and subsequent FQ sur         4/ /         FACILITY       METHOD OF         STATUS       %POWER         OTHER STATUS       (30)         // /E/ (28) /0/2/5/ (29) / NA / (30)	12D       FORM SUB. SUPPLIER HARDFACTOR         (23) /N/ (24) /N/ (25) /W/1/2/0/         uter technician after a disc /         and an old tape was used when /         vey constants per most recent /         veys were satisfactory.         /         DISCOVERY DESCRIPTION (32)         1) / ENGINEER OBSERVATION /
/F/ (18) /G/ (19) /Z/ (20) /Z/ (21) /0/0/0/ (22) /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/ / The incorrect constants were entered by the comp         1/ / changeut. The original data was dumped on tape         2/ / reloading. Upon discovery, the corrected FQ sur         3/ / survey update were entered and subsequent FQ sur         4/ /         FACILITY       METHOD OF         STATUS       %POWER       OTHER STATUS         5/ /E/ (28) /0/2/5/ (29) / NA / (30)       DISCOVERY         5/ /E/ (28) /0/2/5/ (29) / NA / (30)       /B/ (31)	1ED       FORM SOB. SOFFEIER HARDFACTOR         (23)       /N/ (24)       /N/ (25)       /W/1/2/0/         uter technician after a disc       /         and an old tape was used when       /         vey constants per most recent       /         veys were satisfactory.       /         DISCOVERY DESCRIPTION (32)       1)         1)       /       ENGINEER OBSERVATION /
/F/ (18) /G/ (19) /Z/ (20) /Z/ (21) /0/0/0/ (22) /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/ / The incorrect constants were entered by the comp         1/ / changent. The original data was dumped on tape         2/ / reloading. Upon discovery, the corrected FQ sur         3/ / survey update were entered and subsequent FQ sur         4/ /         FACILITY         STATUS         %POWER       OTHER STATUS         5/ /E/ (28) /0/2/5/ (29) / NA / (30)         6/ /E/ (28)         7/ ///////////////////////////////////	IED       FORM SUB. SUPPLIER       MARGEACTOR         (23)       /N/ (24)       /N/ (25)       /W/1/2/0/         uter technician after a disc       /         and an old tape was used when       /         vey constants per most recent       /         veys were satisfactory.       /         DISCOVERY DESCRIPTION (32)       /         1)       /       ENGINEER OBSERVATION         IOCATION OF PEUFASE (36)       (36)
IAREA       ACTIVITY       ON FLEART       HETHOD       HOOKS       SOBHTT         /F/ (18)       /G/ (19)       /Z/ (20)       /Z/ (21)       /0/0/0/0/ (22)       /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/       /       The incorrect constants were entered by the comp         1/       /       changeut.       The original data was dumped on tape         2/       /       reloading.       Upon discovery, the corrected FQ sur         3/       /       survey update were entered and subsequent FQ sur         4/       /         FACILITY       METHOD OF         STATUS       %POWER       OTHER STATUS (30)         5/       /E/ (28)       /0/2/5/ (29)       /         6/       /Z/ (33)       /Z/ (34)       /	1ED       FORM SOB. SOFFETER HARDFACTOR         (23)       /N/ (24)       /N/ (25)       /W/1/2/0/         uter technician after a disc       /         and an old tape was used when       /         vey constants per most recent       /         veys were satisfactory.       /         DISCOVERY DESCRIPTION (32)       /         1)       /       ENGINEER OBSERVATION /         LOCATION OF RELEASE (36)       /
IARLA       ACTION       ON FEART METHOD       HOURS       SOBHT         /F/ (18)       /G/ (19)       /Z/ (20)       /Z/ (21)       /0/0/0/0/ (22)       /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/       /       The incorrect constants were entered by the comp         1/       _       changeut.       The original data was dumped on tape         2/       /       reloading.       Upon discovery, the corrected FQ sur         3/       /       survey update were entered and subsequent FQ sur         4/       /         FACILITY       METHOD OF         STATUS       %POWER       OTHER STATUS         5/       /E/ (28)       /0/2/5/ (29)       /         6/       /Z/ (33)       /Z/ (34)       /         6/       /Z/ (33)       /Z/ (34)       /         6/       /Z/ (33)       /Z/ (34)       /	IED       FORM SOB. SOFFEIER       MARGEACTOR         (23)       /N/ (24)       /N/ (25)       /W/1/2/0/         uter technician after a disc       /         and an old tape was used when       /         vey constants per most recent       /         veys were satisfactory.       /         DISCOVERY DESCRIPTION (32)       /         1)       /       ENGINEER OBSERVATION /         LOCATION OF RELEASE (36)       /         NA       /
ACTIVITY       ACTIVITY       ON FEAST HERROD       HORKS       SOBITI         /F/ (18)       /G/ (19)       /Z/ (20)       /Z/ (21)       /0/0/0/0/ (22)       /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/       /       The incorrect constants were entered by the comp         1/       /       changeut.       The original data was dumped on tape         2/       /       reloading.       Upon discovery, the corrected FQ sur         3/       /       survey update were entered and subsequent FQ sur         4/       /       METHOD OF         STATUS       %POWER       OTHER STATUS (30)       DISCOVERY         5/       /E/ (28)       /0/2/5/ (29)       /       NA       /       /B/ (3)         6/       /Z/ (33)       /Z/ (34)       /       NA       /       /         6/       /Z/ (33)       /Z/ (34)       /       NA       /       /         6/       /Z/ (33)       /Z/ (34)       /       NA       /       /         6/       /Z/ (33)       /Z/ (38)       /       NA       /       /         6/       /Z/ (33)       /Z/ (38)       /       NA       /       /         <	IED FORM SOB. SOFFEIER HARCFACTOR         (23) /N/ (24) /N/ (25) /W/1/2/0/         uter technician after a disc /         and an old tape was used when /         vey constants per most recent /         veys were satisfactory.         /         DISCOVERY DESCRIPTION (32)         1) / ENGINEER OBSERVATION /         LOCATION OF RELEASE (36)         NA
IACLIN       ACTION       ON FEART HERROD       HOOKS       SUBIT         /F/ (18)       /G/ (19)       /Z/ (20)       /Z/ (21)       /0/0/0/0/ (22)       /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/       /       The incorrect constants were entered by the comp         1/       /       Changeut.       The original data was dumped on tape         2/       /       reloading.       Upon discovery, the corrected FQ sur         3/       /       survey update were entered and subsequent FQ sur         3/       /       survey update were entered and subsequent FQ sur         4/       /	IED FORM SOB. SOFFEIER HARCFACTOR         (23) /N/ (24) /N/ (25) /W/1/2/0/         uter technician after a disc /         and an old tape was used when /         vey constants per most recent /         veys were satisfactory.         /         DISCOVERY DESCRIPTION (32)         1) / ENGINEER OBSERVATION /         LOCATION OF RELEASE (36)         NA
ACTION       ON FLANT HERROD       HOOKS       SUBIT         /F/ (18)       /G/ (19)       /Z/ (20)       /Z/ (21)       /0/0/0/0/ (22)       /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/       /       The incorrect constants were entered by the comp         1/       /       changeut.       The original data was dumped on tape         2/       /       reloading.       Upon discovery, the corrected FQ sur         3/       /       survey update were entered and subsequent FQ sur         4/       /         FACILITY       METHOD OF         STATUS       %POWER       OTHER STATUS         5/       /E/ (28)       /0/2/5/ (29)       /         6/       /Z/ (33)       /Z/ (34)       /         7/       CONTENT       RELEASED       OF RELEASE         8       MOUNT OF ACTIVITY (35)       /       /         6/       /Z/ (33)       /Z/ (34)       /       NA         7/       /0/0/0/ (37)       /Z/ (38)       /       NA         7/       /0/0/0/ (37)       /Z/ (38)       /       NA         7/       /0/0/0/ (40)       /       /       /	IED       FORM SOB. SOFFEIER       MARGEACTOR         (23)       /N/ (24)       /N/ (25)       /W/1/2/0/         uter technician after a disc       /         and an old tape was used when       /         vey constants per most recent       /         veys were satisfactory.       /         DISCOVERY DESCRIPTION (32)       /         1)       /       ENGINEER OBSERVATION /         LOCATION OF RELEASE (36)       /         NA       /
IARLS       ACTION       ON FLANT       HETHOD       HOURS       SUBITY         /E/ (18) /G/ (19) /Z/ (20) /Z/ (21) /0/0/0/ (22) /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/ /       The incorrect constants were entered by the comp         1/ /       changeut.       The original data was dumped on tape         2/ /       reloading.       Upon discovery, the corrected FQ sur         3/ /       survey update were entered and subsequent FQ sur         3/ /       survey update were entered and subsequent FQ sur         4/ /       FACILITY       METHOD OF         STATUS       %POWER       OTHER STATUS (30) DISCOVERY         5/ /E/ (28) /0/2/5/ (29) /       NA       / B/ (3)         ACTIVITY       CONTENT       RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)         6/ /Z/ (33) /Z/ (34) /       NA       / /         PERSONNEL EXPOSURES       NUMBER       TYPE         NUMBER       TYPE       DESCRIPTION (39)         7/ /0/0/0/ (37) /Z/ (38) /       NA         PERSCNNEL INJURIES       NA         PERSCNNEL INJURIES       NA         PERSCNNEL INJURIES       NA         PERSCNNEL INJURIES       NA         MUMBER       DESCRIPTION (41)         8/ (0/0/0/ (40	IED FORM SOB. SOFFEIER HARCFACTOR         (23) /N/ (24) /N/ (25) /W/1/2/0/         uter technician after a disc /         and an old tape was used when /         vey constants per most recent /         veys were satisfactory.         /         DISCOVERY DESCRIPTION (32)         1) / ENGINEER OBSERVATION /         LOCATION OF RELEASE (36)         NA         /
IARLA       ACTION       ON FLANT HETHOD       HOURS       SUBHT         /E/ (18) /G/ (19) /Z/ (20) /Z/ (21) /0/0/0/ (22) /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/ /       The incorrect constants were entered by the comp         1/ /       changeut. The original data was dumped on tape         2/ /       reloading. Upon discovery, the corrected FQ sur         3/ /       survey update were entered and subsequent FQ sur         3/ /       survey update were entered and subsequent FQ sur         4/ /       FACILITY       METHOD OF         STATUS       %POWER       OTHER STATUS (30) DISCOVERY         5/ /E/ (28) /0/2/5/ (29) /       NA /       /B/ (3)         ACTIVITY       CONTENT       RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)         6/ /Z/ (33) /Z/ (34) /       NA /       /         7/ /0/0/0/ (37) /Z/ (38) /       NA       /         7/ /0/0/0/ (37) /Z/ (38) /       NA       /         7/ /0/0/0/ (40) /       NA       /       /         8/ /0/0/0/ (40) /       NA       /       /	TED       FORM SOB. SOFFETER HARDFACTOR         (23) /N/ (24) /N/ (25) /W/1/2/0/         uter technician after a disc /         and an old tape was used when /         vey constants per most recent /         veys were satisfactory.         /         DISCOVERY DESCRIPTION (32)         1) / ENGINEER OBSERVATION /         LOCATION OF RELEASE (36)         NA         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         1)         /         LOCATION OF RELEASE (36)         NA         /
IARLA       ACTION       ON FLANT HETHOD       HOURS       SUBHT         /E/ (18) /G/ (19) /Z/ (20) /Z/ (21) /0/0/0/ (22) /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/ /       The incorrect constants were entered by the comp         1/ /       changeut.       The original data was dumped on tape         2/ /       reloading.       Upon discovery, the corrected FQ sur         3/       /       survey update were entered and subsequent FQ sur         3/       /       survey update were entered and subsequent FQ sur         4/       /         FACILITY       METHOD OF         STATUS       %POWER       OTHER STATUS         5/ /E/ (28) /0/2/5/ (29) /       NA       /B/ (30)         6/ /Z/ (33) /Z/ (34) /       NA       /B/ (3         6/ /Z/ (33) /Z/ (34) /       NA       / /         PERSONNEL EXPOSURES       NUMBER       TYPE         NUMBER       DESCRIPTION (41)       8         8/ /0/0/0/ (40) /       NA       NA         PERSCNNEL INJURIES       NA         PERSCRIPTION       (43)         9/ /Z/ (42) /       NA	TED       FORM SOB. SOFFETER HARCEACTOR         (23) /N/ (24) /N/ (25) /W/1/2/0/         uter technician after a disc /         and an old tape was used when /         vey constants per most recent /         veys were satisfactory.         /         DISCOVERY DESCRIPTION (32)         1) / ENGINEER OBSERVATION /         LOCATION OF RELEASE (36)         NA         /
IARCA       ACTION       ON FLENT HETHOD       HOURS       SUBHT         /E/ (18) /G/ (19) /Z/ (20) /Z/ (21) /0/0/0/ (22) /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         0/ /       The incorrect constants were entered by the comp         1/ /       changeut. The original data was dumped on tape         2/ /       reloading. Upon discovery, the corrected FQ sur         3/ /       survey update were entered and subsequent FQ sur         3/ /       survey update were entered and subsequent FQ sur         4/ /       METHOD OF         STATUS       %POWER         07 / E/ (28) /0/2/5/ (29) /       NA         6/ /Z/ (33) /Z/ (34) /       NA         9/ /Z/ (33) /Z/ (34) /       NA         9/ /2/ (33) /Z/ (34) /       NA         9/ /2/ (00/0) / (07) /Z/ (38) /       NA         9/ /2/ (42) /       NA         9/ /2/ (42) /       NA         9/ /Z/ (42) /       NA	TED       FORM SOB. SOFFETER HARDFACTOR         (23) /N/ (24) /N/ (25) /W/1/2/0/         uter technician after a disc /         and an old tape was used when /         vey constants per most recent /         veys were satisfactory.         /         DISCOVERY DESCRIPTION (32)         1) / ENGINEER OBSERVATION /         LOCATION OF RELEASE (36)         NA         /         NA
IARCLA       ACTION       ON FLEART       HETHOD       HOURS       SUBHIT         /E/ (18)       /G/ (19)       /Z/ (20)       /Z/ (21)       /0/0/0/0/ (22)       /Y/         CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)         '0/       /       The incorrect constants were entered by the comp         '1/       /       changeut.       The original data was dumped on tape         '2/       /       reloading.       Upon discovery, the corrected FQ sur         '3/       /       survey update were entered and subsequent FQ sur         '4/       /       //       METHOD OF         STATUS       %POWER       OTHER STATUS (30)       DISCOVERY         5/       /E/ (28)       /0/2/5/ (29)       /       NA       /         5/       /E/ (28)       /0/2/5/ (29)       /       NA       /         5/       /E/ (28)       /0/2/5/ (29)       /       NA       /         6/       /Z/ (33)       /Z/ (34)       /       NA       /         PERSONNEL EXPOSURES       AMOUNT OF ACTIVITY (35)       /       /       /         6/       /Z/ (33)       /Z/ (34)       /       NA       /       /         7/       /0/0/0/ (37)	TED       FORM SOB. SOFFETER HARCEACTOR         (23) /N/ (24) /N/ (25) /W/1/2/0/         uter technician after a disc /         and an old tape was used when /         vey constants per most recent /         veys were satisfactory.         /         DISCOVERY DESCRIPTION (32)         1) / ENGINEER OBSERVATION /         LOCATION OF RELEASE (36)         NA         /         NRC USE ONLY

8101090638

Virginia Electric and Power Company North Anna Power Station, Unit #2 Docket No. 50-339 Report No. LER 80-101/03L-0

## Attachment: Page 1 of 1

## Description of Event

On December 11, 1980 while operating in mode 1 at 25% power it was discovered that non conservative constants were entered into the FQ survey program and subsequently used to verify  $F_2$  within limits on 11-29-80. This discovery was made when a member of the reactor engineering group was checking the FQ survey program prior to exceeding 90% power after a startup. The program was accessed to print out the constants and they were found to be incorrect. This event is reportable pursuant to T.S. 6.9.1.9.c.

## Probable Consequences of Occurrence

It is possible that operating with non-conservative constants in the FQ survey program may cause peaking limits to be exceeded without warning. However, because FQ surveys done prior to and subsequent to this event (with the correct constants inserted) demonstrated the peaking limits to be within an allowable margin, the health and safety of the public were not affected by this event.

### Cause of Event

The incorrect constants were entered by the computer technicians after a disc changout subsequent to a computer failure. The original data was dumped on a tape until the disc changout was completed. When reloading the disc, an old tape consisting of previously utilized FQ survey constants was used. These constants were later found to be non-conservative in nature.

#### Immediate Corrective Action

The corrected FQ survey constants per most recent surveillance update were entered prior to exceeding 90% power. Subsequent FQ surveys were completed with satisfactory results.

## Scheduled Corrective Action

A program will be developed that will check the constants for the FQ survey periodically and after loading of data subsequent to computer failure and to compare these constants with what was initially inserted.

#### Actions Taken to Prevert Recurrence

Above scheduled correction actions will be sufficient to prevent recurrence.

#### Generic Implications

There are no generic implications to this event.