

TURKEY POINT UNITS 3 & 4  
DOCKET NOS. 50-250 & 50-251  
PROPOSED LICENSE AMENDMENT

TITLE: Manual Bypass of Certain S.I. Signals

ENCLOSURES:

- 1) Current Technical Specifications
- 2) Proposed Technical Specifications
- 3) Operating Procedure 0205.2, Page 6

DESCRIPTION:

Technical Specifications Table 3.5-2 Item 1.3 High differential pressure between any steam line and the steam line header - Add reference to an existing footnote which reads: This signal may be manually bypassed, when cooling down the reactor and RCS pressure is below 2000 psig.

Item 1.5 High steam flow in 2/3 steam lines with low T<sub>AVG</sub> or low steam line pressure - Add a footnote to read: This signal may be manually bypassed, when cooling down the reactor and T<sub>AVG</sub> is below 543°F.

The proposed revisions to Table-3.5-2 of the Technical Specifications are necessary to permit operational flexibility during normal plant cooldown/startup consistent with the NSSS vendor recommendations.

The automatic safety injection signal from low pressurizer pressure (2/3) can be manually blocked when the reactor coolant pressure is below 2000 psig and will automatically unblock above this pressure. This manual block shall not be used except during normal procedures for plant cooldown and startup.

The basis for the above is that when the reactor is shutdown and is to be cooled down and depressurized, the steam generator main steam isolation valves are normally closed. This brings steam header pressure to 0 psig. As the system is cooled via the steam dumps to atmosphere, the pressure in the steam generators is reduced. By design the output from the steam line header pressure transmitter is set such that the signal will not fall below that equivalent to 585 psig. Thus a safety injection would occur when steam generator pressure reaches 485 psig (100 psi Delta p) if the signal is not blocked. Currently, this signal is blocked simultaneously with blocking the Pressurizer Low Pressure signal (Table 3.5-2, Item 1.4).

The automatic safety injection signal from high steam flow coincident with either low steam line pressure or low T<sub>(avg)</sub> can be manually blocked when the reactor coolant average temperature is below 543°F and will automatically unblock above this temperature. This main block shall not be used except during normal procedures for plant cooldown and startup.

The basis for the above is that the reactor could not be cooled down and depressurized (without initiating safety injection) if this signal were not allowed to be blocked.

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ATTACHMENT 1

TABLE 3.5-2

ENGINEERED SAFETY FEATURES ACTUATION

<u>NO.</u>	<u>FUNCTIONAL UNIT</u>	<u>1</u> MIN. OPERABLE CHANNELS	<u>2</u> MIN. DEGREE OF REDUNDANCY	<u>3</u> OPERATOR ACTION IF CONDITIONS OF COLUMN 1 OR 2 CANNOT BE MET
1.	SAFETY INJECTION			
1.1	Manual	1	0	Cold Shutdown
1.2	High Containment Pressure	2	1	Cold Shutdown
1.3	High Differential Pressure between any Steam Line and the Steam Line Header	2	1	Cold Shutdown
1.4	Pressurizer Low Pressure*	2	1	Cold Shutdown
1.5	High Steam Flow in 2/3 Steam Lines with Low Trip or Low Steam Line Pressure	1/line in each of 2 lines	1	Cold Shutdown
2.	CONTAINMENT SPRAY			
2.1	High Containment Pressure and High-High Containment Pressure (Coincident)	2 per set	1/set	Cold Shutdown
3.	AUXILIARY FEEDWATER			
3.1	Low-Low Steam Generator Level	2	1	Hot Shutdown
3.2	Loss of Voltage (both 4KV busses)	2	0	Cold Shutdown
3.3	Safety Injection		(---See 1 above---	
3.4	Trip of both Main Feedwater Pump Breakers	2	0	Cold Shutdown

\* This signal may be manually bypassed, when the reactor is shut down and pressure is below 2000 psig.

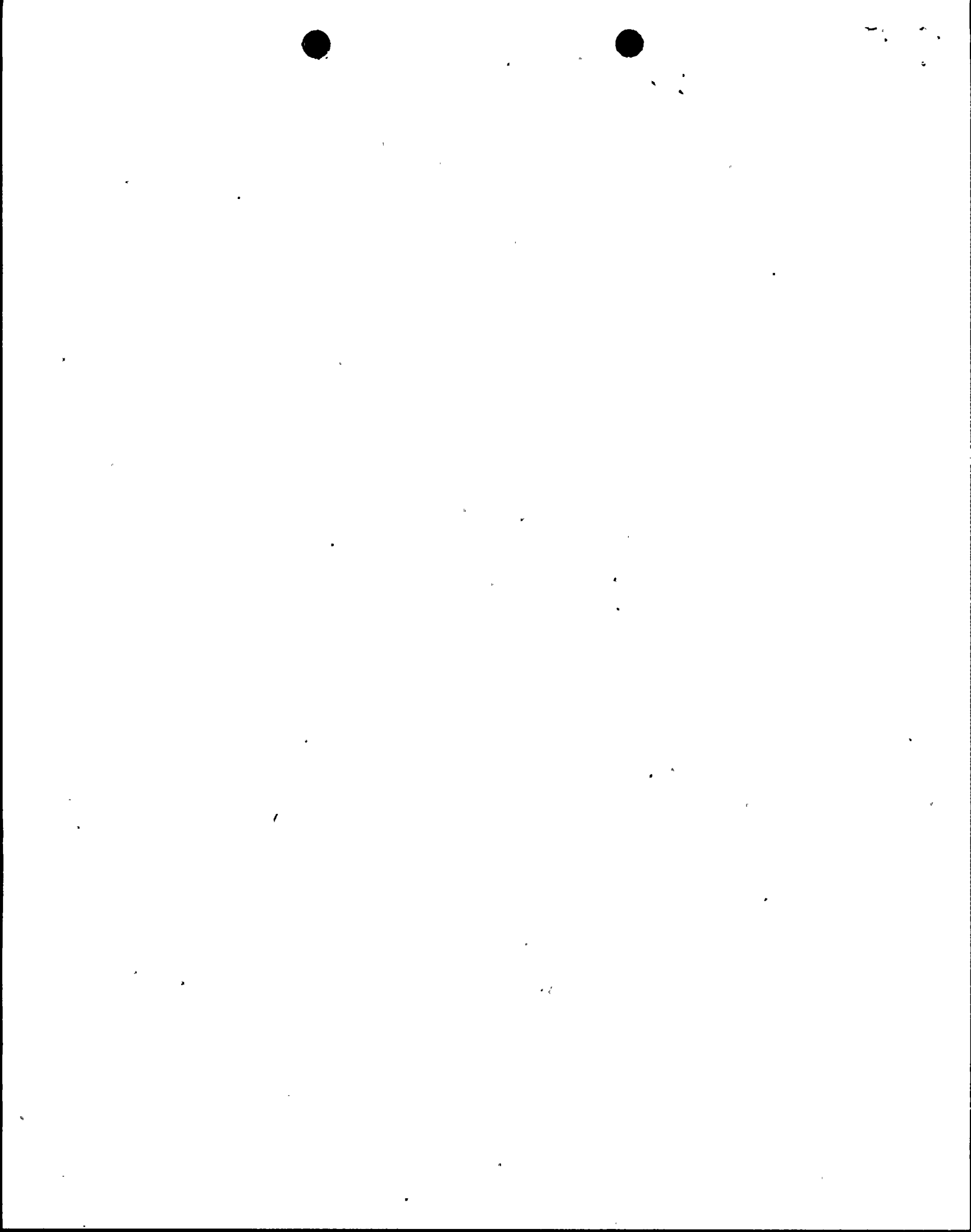
TABLE 3.5-2

ENGINEERED SAFETY FEATURES ACTUATION

<u>NO.</u>	<u>FUNCTIONAL UNIT</u>	<u>1</u> <u>MIN.</u> <u>OPERABLE</u> <u>CHANNELS</u>	<u>2</u> <u>MIN.</u> <u>DEGREE</u> <u>OF</u> <u>REDUN-</u> <u>DANCY</u>	<u>3</u> <u>OPERATOR ACTION</u> <u>IF CONDITIONS OF</u> <u>COLUMN 1 OR 2</u> <u>CANNOT BE MET</u>
1.	SAFETY INJECTION			
1.1	Manual	1	0	Cold Shutdown
1.2	High Containment Pressure	2	1	Cold Shutdown
1.3	High Differential Pressure between any Steam Line and the Steam Line Header*	2	1	Cold Shutdown
1.4	Pressurizer Low Pressure*	2	1	Cold Shutdown
1.5	High Steam Flow in 2/3 Steam Lines with Low $T_{avg}$ or Low Steam Line Pressure**	1/line in each of 2 lines	1	Cold Shutdown
2.	CONTAINMENT SPRAY			
2.1	High Containment Pressure and High-High Containment Pressure (coincident)	2 per set	1/set	Cold Shutdown
3.	AUXILIARY FEEDWATER			
3.1	Low-Low Steam Generator Level	2	1	Hot Shutdown
3.2	Loss of Voltage (both 4KV busses)	2	0	Cold Shutdown
3.3	Safety Injection	(---See 1 above---		
3.4	Trip of both Main Feedwater Pump Breakers	2	0	Cold Shutdown

\* This signal may be manually bypassed, when cooling down the reactor and RCS pressure is below 2000 psig.

\*\* This signal may be manually bypassed, when cooling down the reactor and  $T_{avg}$  is below 543°F.



OPERATING PROCEDURE 0205.2, PAGE 8  
 REACTOR SHUTDOWN  
 HOT SHUTDOWN TO COLD SHUTDOWN CONDITION

INITIALS

- 8.12 Block the high steam flow SI initiating signal after the permissive light LO Tavg BLOCK SI is illuminated. Permissive light STM LINE SAF INJ BLKD will light when signal is blocked.
- 8.13 Block the low pressurizer pressure and the high steam line/header delta P SI initiating signals after the permissive light SAFETY INJECT BLOCK TRIPPED is illuminated. Permissive light SAFETY INJECT BLOCKED will light when signal is blocked.

- NOTES:
1. The three SI initiating signals will be blocked simultaneously if both permissive signals are present when the block switch is turned to BLOCK.
  2. The high steam flow signal will be unblocked automatically if TAVG increases to 543° F.
  3. The low pressurizer pressure and high steam line header delta p signals will be unblocked automatically if the RCS pressure is increased high enough to unblock safety injection. (2000 psig).
  4. The signals may be unblocked manually at any time by turning the block switch to UNBLOCK.

- 8.14 Unlock and close the following 480 V breakers:

30532 (40733), MOV-\*-865A Accumulator A to A cold leg  
 30631 (40532), MOV-\*-865B Accumulator B to B cold leg  
 30733 (40631), MOV-\*-865C Accumulator C to C cold leg

- 8.15 When the RCS pressure is 1000 psig, close, lock or tag the following accumulator discharge valves:

MOV-*-865A	Accumulator A to cold leg A	CLOSED/LOCKED OR TAGGED
MOV-*-865B	Accumulator B to cold leg B	CLOSED/LOCKED OR TAGGED
MOV-*-865C	Accumulator C to cold leg C	CLOSED/LOCKED OR TAGGED

CAUTION: The accumulator valves must be closed prior to reaching 700 psig in the RCS to prevent the accumulators from discharging to the RCS.

- 8.16 Close, lock and tag the following valves to isolate the containment spray pumps:

*-891A	A cont. spray pump isolation	CLOSED/LOCKED
*-891B	B cont. spray pump isolation	CLOSED/LOCKED

- 8.17 Unlock and close the following breakers, then verify that the valves indicate closed on VPB.

30732 (40732)	MOV-*-866A HH SI to Loop A Hot Leg
30621 (40621)	MOV-*-866B HH SI to Loop B Hot Leg

- 8.18 Prior to cooling below 380° F in RCS, verify closed the following SIS valves and tag the corresponding control switches on VP-B.

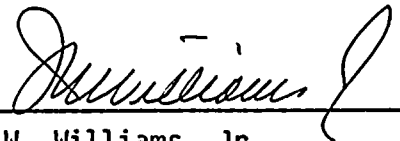
MOV-*-843A	HH SI stop to cold legs	CLOSED
MOV-*-843B	HH SI stop to cold legs	CLOSED
MOV-*-866A	HH SI to loop A hot leg	CLOSED
MOV-*-866B	HH SI to loop B hot leg	CLOSED

STATE OF FLORIDA    )  
                          )  
COUNTY OF DADE    )    ss.

J. W. Williams, Jr., being first duly sworn, deposes and says:

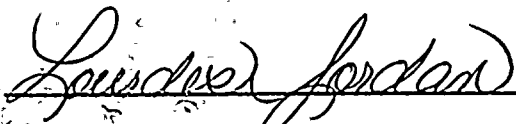
That he is Vice President of Florida Power & Light Company, the licensee herein;

That he has executed the foregoing document; that the statements made in this document are true and correct to the best of his knowledge, information, and belief, and that he is authorized to execute the document on behalf of said Licensee.



\_\_\_\_\_  
J. W. Williams, Jr.

Subscribed and sworn to before me this  
28 th day of December, 1983.



\_\_\_\_\_  
NOTARY PUBLIC, in and for the County of  
Dade, State of Florida.

My commission expires: \_\_\_\_\_

NOTARY PUBLIC STATE OF FLORIDA AT LARGE  
MY COMMISSION EXPIRES DEC 8 1984  
BONDED THRU GENERAL INS, UNDERWRITERS

1952 APR 23  
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POLICE  
MONTANA  
MONTANA