U. S. NUCLEAR REGULATORY COMMISSION NRC FORM 36E 7.771 LICENSEE EVENT REPORT IPLEASE PRINT OR TYPE ALL REQUIRED INFORMATION 10 CONTROL BLOCK - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 1 0 57 VASPS1 CENSEE CODE LICENSE NUMBER 6050000 11 5 8 17 8 2 3 11 11 9 8 0 0 1 10 11 REPORT 21 SOURCE REPORT DATE DOCKET NUMBER EVENT DESCRIPTION AND PROBABLE CONSEQUENCES With the unit ramping to 100%, control rod P-8 of "D" bank dropped, initiating a turbine runback. The rod was declared inoperable in accordance with Tech. Spec. 5 3.12.C.1. The dropped rod contributed to a radial flux tilt of greater than 2% 4 which is contrary to Tech. Spec. 3.12.B.5. These events are reportable per 1 2 T.S. 6.6.2.b.(2). The health and safety of the public were not affected. 015 0 1 3 8 COMP VALVE SYSTEM CAUSE CAUSE SUBCODE COMPONENT CODE SUBCODE X X X X X X X X Z 1 (15 Z (16) (13) B E (12) A 0 9 18 9 OCCURRENCE REVISION REPORT SEQUENTIAL CODE NO. YPE REPORT NO. LERIRO 3 0 0 REPORT 8 2 NUMBER 31 28 25 COMPONENT PRIME COMP NPRD-4 ATTACHMENT EFEEC METHOD HOURS 22 TAKEN 22 ACTION FORM SUS PLANT 7 2 0 26 23 N (24) 25 (21 10 10 N 0 0 (20) B 18 CAUSE DESCRIPTION AND COPRECTIVE ACTIONS (27) A contact pin in the stationary coil plug was not making electrical contact. The 10 plug was repaired, and the rod was verified operable and returned to service 111 Retrieval of the rod corrected the power tilt to less than 2%. 1 2 13 14 80 é METHOD OF (30) DISCOVERY DESCRIPTION (32) FACILIT OTHER STATUS N POWER (31 9 6 2 (29) Operator Observation N/A A C 15 (28) 80 CONTENT TIVITY LOCATION OF RELEASE (36) AMOUNT OF ACTIVITY (35) OF RELEASE RELEASED N/A 12 34 N/A (22) 6 80 45 PERSONNEL EXPOSURES DESCRIPTION (39) -ver NUMBER Z (38) N/A 10 0 80 PERSONNEL INJURIES DESCRIPTION 41 NUMBER 10 0 40 N/A 0 12 80 8211230451 821115 Coss of OR DAMAGE TO FACILITY (3) PDR ADOCK 05000280 S N/A PDR 1 9 80 SSUED DESCRIPTION (1) NRC USE ONLY 11111111111 N/A 4.0 30 5 68 ------ (804) 357-3184 Wave of estings J. L. Wilson

ATTACHMENT 1 SURFY POWER STATION, UNIT NO. 1 DOCHET FO: 50-280 REPIRT FO: 82-111/03L-0 EVENT LATE: 10-17-82

TITLE OF THE EVENT: RADIAL FLUX TILT GREATER THAN 2%

1. Description of the Event:

With the Unit at 62% power and ramping to 100% power at a rate of 3% per hour, the unit experienced a dropped control rod, which subsequently resulted in a quarrant to average power tilt of greater than 2%.

The iropped control rod (rod P-8 in Control Bank "D") initiated an automatic turrine runback to approximately 32% power. The control rod could not be retrieved and was declared inoperable in accordance with the provisions of Tech. Spec. 3.12.C.1. Operation of the unit with one inoperable rod is permitted by Tech. Spec. 3.12.C.2.

The quadrant to average power tilt of greater than 2% is contrary to Technical Specification 3.12.B.5 and is reportable in accordance with Tech. Spec. 6.6.2.5.(2).

2. Protable Consequences and Status of Redundant Equipment:

Continued operation with a flux tilt of greater than 2% would lead to non-uniform fuel burnup which could make reactivity control of the reactor more difficult, and have adverse effects on power distribution. The power level and high neutron flux trip setpoints were reduced as required by T.S.3.12.B.6.b.

For the above reasons, the health and safety of the public were not affected.

3. Causa:

The quadrant to average power tilt was caused by the dropped rod. A loss of power to the Stationary Gripper Coil of the Control Rod Drive Mechanism caused the gripper to open, thereby dropping the rod. One of the contact pins in the electrical connector plug at the Reactor Head to the Stationary Coil had slipped out of position and was not making contact. Loss of this contact de-energized the coil.

4. Immediate Corrective Action:

The immediate corrective action was to initiate Abnormal Procedure 1.4 (Reactor Control System Malfunction-Dropped RCCA). Performance of this procedure revealed a problem in the stationary coil circuitry. The high neutron flux trip and rod stor turbine runback setpoints were reduced as required by Tech. Spec. 3.11.3.6.b.

5. Subsequent Corrective Action:

The problem was isolated to the connector for the stationary coil on the reactor head. The connector was disassembled, repaired, and reconnected. The rod was tested, verified operable and retrieved, correcting the power tilt. Power was increased after the tilt was verified within Tech. Spec. limits.

6. Actions Taken to Prevent Recurrence:

No further actions are required.

7. Generic Implications:

None.