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 RECID,R.W. OPERATING REACTORS BRANCH 4

DOCKET #
05000335

SUBJECT: PROVIDES STATUS OF VERIFICATION PROGRAM FOR TECHNIQUE OF MEASURING RESISTANCE TEMP DETECTORS TIME CONSTANTS.

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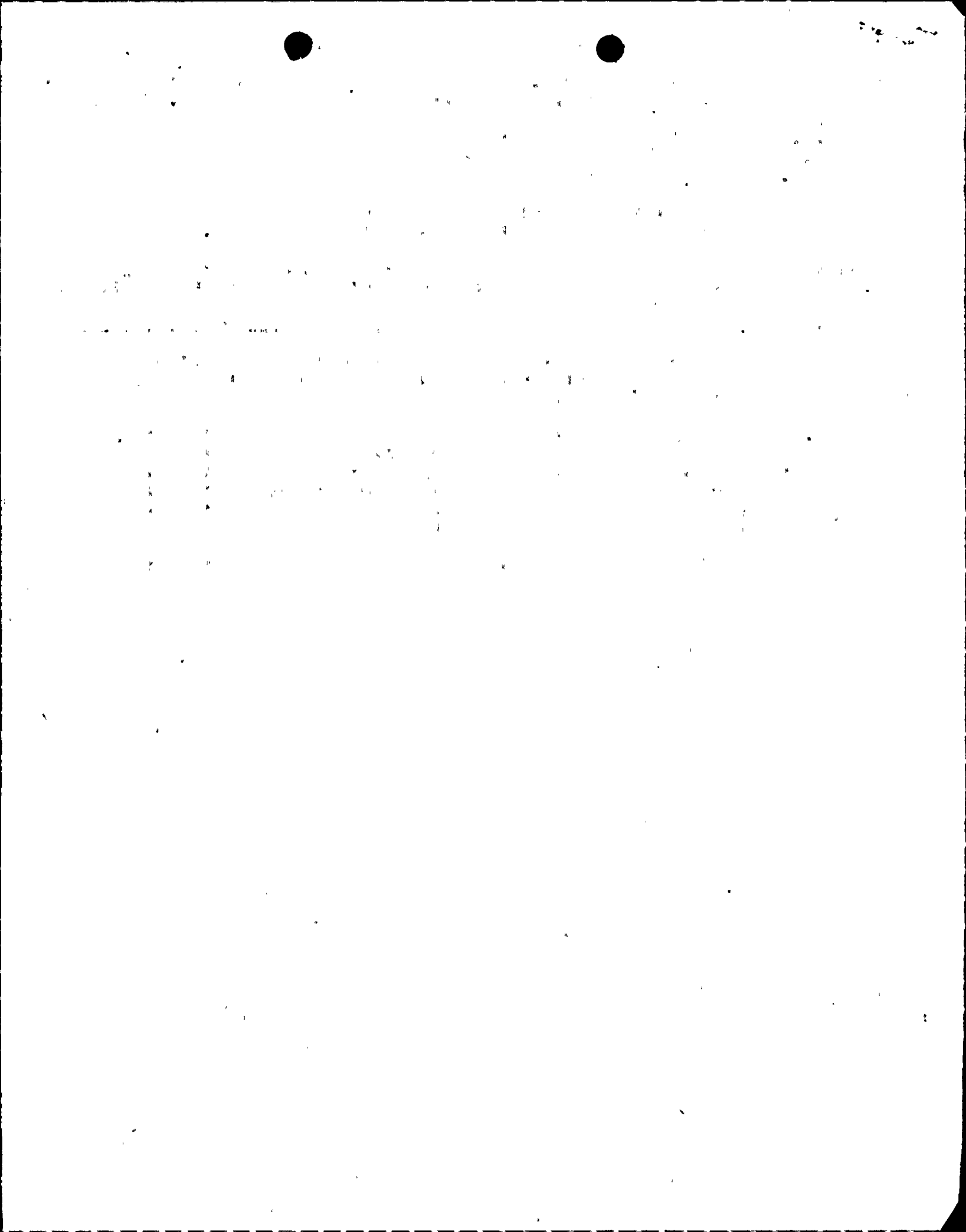
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May 1, 1979
L-79-107

Office of Nuclear Reactor Regulation
Attention: Mr. R. W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Reid:

Re: St. Lucie Unit 1
Docket No. 50-335
Resistance Temperature Detectors

The purpose of this report is to inform you of the status of the St. Lucie Unit 1 verification program for the Loop Current Step Response (LCSR) technique of measuring Resistance Temperature Detector (RTD) time constants. During the period of March 20 through March 22, 1979, LCSR tests were performed on the sixteen (16) protection channel RTDs while at steady-state full power conditions. The results of these tests compared with the earlier surveillance of October, 1978 are tabulated below:

TIME CONSTANT (SECONDS)

Tag No.	October 1978	March 1979
TE-1112CA	4.0 ± 0.4	4.1 + 1.2/-0.7
TE-1112HA	4.4 ± 0.2	4.5 ± 0.3
TE-1122CA	6.0 ± 0.6	6.0 ± 0.7
TE-1122HA	5.3 ± 0.5	5.7 ± 0.7/-0.5
TE-1112CB	5.0 ± 0.5	4.8 + 0.6/-0.4
TE-1112HB	5.0 ± 0.9	5.3 ± 0.6
TE-1122CB	5.9 ± 0.3	5.4 ± 0.2
TE-1122HB	5.8 ± 0.3	5.6 ± 0.4
TE-1112CC	4.5 ± 0.7	4.3 ± 0.8/-0.5
TE-1112HC	5.4 ± 0.4	5.4 + 0.7/-0.5
TE-1122CC	5.4 ± 0.3	5.7 ± 0.5
TE-1122HC	5.4 ± 0.4	5.0 ± 0.7/-0.5
TE-1112CD	4.8 ± 0.3	4.9 ± 0.5
TE-1112HD	4.9 ± 0.5	5.7 ± 1.0/-0.7
TE-1122CD	5.7 ± 0.5	5.6 + 0.9/-0.7
TE-1122HD	4.3 ± 0.5	4.8 + 1.6/-0.9

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Office of Nuclear Reactor Regulation
Attention: Mr. R. W. Reid, Chief
Operating Reactors Branch #4

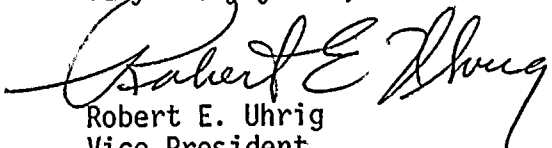
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Analysis of the test data continues to confirm that the time constant of each RPS-RTD is less than the 8.0 second limit of Technical Specification Table 3.3-2. Comparison of the results of the current surveillance with the October, 1978 tests shows an average time constant of 5.2 seconds versus 5.1 seconds.

In summary, the results of LCSR Surveillance testing at the St. Lucie Plant in October, 1978 and March, 1979 indicate the following:

- 1.) The time constant of each protection channel RTD is less than the specified limit of 8.0 seconds,
- 2.) There is no evidence of a generic increasing trend in the time constant of these sensors.
- 3.) Replacement of additional RTD's to preclude degradation is not needed at this time.

Very truly yours,


Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/MAS/paf

cc: Mr. James P. O'Reilly, Region II
Harold F. Reis, Esquire



72 22

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is essential for the proper management of the organization's finances and for ensuring compliance with applicable laws and regulations.

2. The second part of the document outlines the specific procedures that must be followed when recording transactions. This includes the requirement that all entries be supported by appropriate documentation, such as invoices, receipts, and contracts.

3. The third part of the document discusses the role of the accounting department in ensuring the accuracy and integrity of the financial records. It highlights the need for regular audits and reconciliations to identify and correct any errors or discrepancies.

4. Finally, the document concludes by reiterating the importance of transparency and accountability in all financial reporting. It encourages the organization to maintain a high level of ethical standards and to be open to external scrutiny.