

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-454/84-57(DRS)

Docket No. 50-454

License No. CPPR-130

Licensee: Commonwealth Edison Company
P.O. Box 767
Chicago, IL 60690

Facility Name: Byron Nuclear Power Station, Unit 1

Inspection At: Byron Site

Inspection Conducted: August 10, 1984

Inspectors: *R. L. Spurrard*
W. E. Milbrot *for*

8/22/84
Date

D. S. Butler
D. S. Butler

8/22/84
Date

Approved By: *R. L. Spurrard*
W. G. Gulderson, Chief *for*
Operational Program Section

8/22/84
Date

Inspection Summary

Inspection on August 10, 1984 (Report No. 50-454/84-57(DRS))

Areas Inspected: Routine, announced inspection of licensee program on reactor cooling system leak rate testing. The inspection involved a total of 16 inspector-hours onsite and 0 inspector-hours offsite by two NRC inspectors.

Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

Commonwealth Edison Company

- *T. Tulon, Operating Engineer
- *B. Milner, Primary Group Leader, Technical Staff
- *R. Poche, Technical Staff
- D. Spitzer, Technical Staff
- *D. Sible, QA Engineer

NRC Representatives

- *J. Hinds, Senior Resident Inspector

The inspectors also contacted and interviewed other licensee personnel during this report period.

*Denotes personnel present at the exit interview.

2. Reactor Cooling System Leak Rate Surveillance Review

The inspectors reviewed operating surveillance B.O.S. 4.6.2.1.d-1, Revision 1, "Reactor Coolant System Water Inventory Balance".

The surveillance was reviewed to ensure that acceptance criteria are specified, calculation techniques used by the licensee are adequate for determining reactor coolant system (RCS) leak rate, and leak rate results are adequately evaluated and meet the acceptance criteria. The following items were noted:

a. The inspector identified the following procedure weaknesses:

- (1) The technical specification acceptance criteria for RCS leak rate are 10 gpm identified and 1 gpm unidentified. The surveillance procedure specifies these acceptance criteria and states corrective action to be taken in the event the acceptance criteria are not met. During the time period that data are collected for the leak rate surveillance, coolant divert operations, reactor coolant sampling activities and primary-to-secondary leakage could change leak rate results. The surveillance makes no reference to consider any identifiable leakage that could alter leak rate calculations.
- (2) The data sheet of the surveillance provides for the calculation of a single leak rate. This leak rate is not qualified as an identified or unidentified leak rate. The performance of B.O.S. 4.6.2.1.d-1, Revision 1 does not provide the necessary information to verify that the identified and unidentified leak rate acceptance criteria have been met. These items will be followed as open item (454/84-57-01), pending the revision of the procedure.

- b. The inspector verified the calibration frequency for the instrumentation used to conduct surveillance B.O.S. 4.6.2.1.d-1, Revision 1, "Reactor Coolant System Water Inventory Balance Surveillance". The instruments are:

<u>USE</u>	<u>PROCESS</u>	<u>INSTRUMENT NUMBER</u>	<u>CAL FREQUENCY</u>
PZR	Level	1LT-459	78 Week
PZR	Level	1LT-460	78 Week
PZR	Level	1LT-461	78 Week
RC	Tave	1TE-411A/411B	78 Week
RC	Tave	1TE-421A/421B	78 Week
RC	Tave	1TE-431A/431B	78 Week
RC	Tave	1TE-441A/441B	78 Week
VCT	Level	1LT-112	208 Week
VCT	Level	1LT-185	208 Week
CV	Flow Integrator	1FT-110	208 Week
CV	Flow Integrator	1FT-111	208 Week

Instruments 1LT-112/185 and 1FT-110/111 have different calibration frequencies (208 weeks) than the other listed instruments (78 weeks). The licensee has indicated that they will review those instruments, calibration schedules, to reflect the calibration frequency of the other instruments. This item will be followed as open item (454/84-57-02).

3. Open Items

Open items are matters which have been discussed with the licensee, which will be reviewed further by the inspector, and which involve some action on the part of the NRC or licensee or both. Open items disclosed during the inspection are discussed in Paragraphs 2a and 2b.

4. Exit Interview

The inspectors met with licensee representatives (denoted in Paragraph 1) on August 10, 1984 to discuss the scope and findings of the inspection. The licensee acknowledged the statements made by the inspectors with respect to items discussed in the report.