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RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards response to request for addl info re single recirculation loop operation, Independent verification of average power range monitor gain adjustment performed daily.

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**Iowa Electric Light and Power Company**
October 11, 1983
NG-83-3374

Mr. Harold Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Duane Arnold Energy Center
Docket No: 50-331
Op. License No: DPR-49
Responses to Request for Additional Information on Single Recirculation Loop Operation

Reference: Letter, L. Root to H. Denton, "Single Loop Operation for the Duane Arnold Energy Center," NG-83-1039, March 28, 1983.

Dear Mr. Denton:

The attachment to this letter provides the additional information requested by your staff on our referenced letter.

Please contact this office if there are additional questions regarding this matter.

Very truly yours,

R. W. McGaughy

Richard W. McGaughy
Manager, Nuclear Division

RWM/RAB/dmh*
Attachment: Iowa Electric Response-Request for Additional Information on Single Recirculation Loop Operation

cc: R. Browning
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NRC Resident Office

A001
11

# Iowa Electric Response to NRC Request for Additional Information on Single Recirculation Loop Operation

## NRC Request

Describe the administrative controls placed on the APRM Gain Adjustments when transferring from Dual to Single Loop Operation.

## Iowa Electric Response

Operating Instruction (OI) #64 on the Reactor Recirculation System describes the transfer from Dual to Single Loop Operation (SLO). Included in OI-64 is an instruction to perform Surveillance Test Procedure (STP) 42F-007, APRM Gain Adjustment, immediately after establishing SLO. STP 42F-007 is performed by a Licensed Reactor Operator who makes the necessary calculations and instrument adjustments according to the procedure. The procedure requires documentation of the instrument "as-found" condition, setpoint calculations, and instrument "as-left" condition. Verification is performed by a second licensed operator who checks the setpoint calculations and verifies the "as-left" condition. The Senior Reactor Operator reviews the documentation for correctness and completeness prior to the required administrative reviews. The Shift Technical Advisor (STA) performs the administrative review for the Operations Supervisor, except for cases where problems are encountered and a Deviation Report is filed. The STA checks to see if the STP was performed properly, that all the necessary documentation is included and that all appropriate signatures are present.

The final administrative review is performed by the Surveillance Program Coordinator, who verifies that all the documentation is present and that all approval signatures have been obtained.

An independent verification of the APRM Gain Adjustment is performed as part of the Daily Instrument Checks, per STP 42A001, which requires the same verification and reviews as 42F007, above. Also, APRM Gains are a standard output from the Core Thermal Power Edit from the plant's process computer, which is monitored periodically each operating shift, and thus constitutes another independent verification of the gain adjustments.