

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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

SUBJECT: Forwards corrected Table 1.1 re power sources for post-trip review recorders, submitted w/850826 response to request for addl info concerning Generic Ltr 83-28, Item 1.2, Panel 1C09 will be modified during Cycle 9/10 refueling outage.

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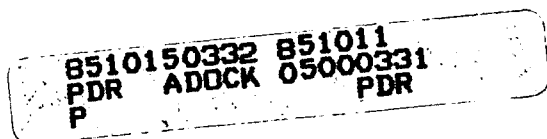
October 11, 1985  
NG-85-4388

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  
Correction to Our Response to Request for  
Additional Information Regarding Generic  
Letter 83-28 (Salem ATWS) Item 1.2  
Reference: Letter, R. McGaughy to H. Denton,  
"Response to Request for Additional  
Information Regarding Generic Letter 83-28  
(Salem ATWS)," NG-85-3889, August 26, 1985  
File: A-107d, A-224, A-107a

Dear Mr. Denton:

In our referenced letter we responded to the Staff's request for additional information regarding the sources of power for selected strip chart recorders in the DAEC control room. In this letter we stated that the chart recorders on control room panel 1C09 received uninterruptible power from the Reactor Protection System (RPS) distribution panel, via the RPS motor-generator (MG) sets. It has subsequently come to our attention that the RPS MG sets are designed to maintain continuity of power to the buses for very short (<1 sec) interruptions of power only. Upon reaching either an undervoltage or underfrequency condition, the circuit breakers in the RPS distribution system will open, requiring a manual reset to reenergize these buses. As this trip will occur much earlier than the time required for the diesel generators to pick up this load (>5 secs), the strip chart recorders in panel 1C09 cannot accurately be described as being powered by uninterruptible sources. However, as shown in the revised table to the referenced letter (attached), each of the plant parameters recorded on panel 1C09 (drywell pressure and reactor pressure) is also recorded elsewhere in the control room by recorders which are fed by uninterruptible power sources.



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The power source deficiency for panel 1C09 has been identified through another project review and engineering efforts are currently underway to ensure that the control room indications on panel 1C09 receive uninterrupted power. We presently expect these modifications to be completed during the Cycle 9/10 refueling outage. We will keep you informed of our progress through the semiannual updates of our Integrated Plan.

Please contact this office if you require further information regarding this subject.

IOWA ELECTRIC LIGHT AND POWER COMPANY

BY Richard W. McGaughey  
Richard W. McGaughey  
Manager, Nuclear Division

Subscribed and sworn to Before Me on  
this 10<sup>th</sup> day of October 1985.

Kathleen M. Furman  
Notary Public in and for the State of Iowa

RWM/RAB/ta\*

Attachment: Table 1.1, Power Sources for Post-Trip Review Recorders

cc: R. Browning  
L. Liu  
S. Tuthill  
M. Thadani  
NRC Resident Office

Table 1.1

POWER SOURCES FOR  
POST-TRIP REVIEW RECORDERS

<u>Parameter</u>	<u>Recorder Number</u>	<u>Location</u>	<u>Range</u>	<u>Chart Drive* Power Source</u>	<u>Power Scheme</u>
1. Neutron Flux	NMR-9254A	1C05	0-125%	1Y23	Y2305A
	NMR-9254B	1C05	0-125%	1Y23	Y2305A
	NMR-9254C	1C05	0-125%	1Y23	Y2305A
	NMR-9254D	1C05	0-125%	1Y23	Y2305A
2. Drywell Pressure	PR-4398A	1C09	0-250 psig	1Y30	1Y303A
	PR-4398B	1C09	-5 to +5 psig	1Y30	2Y303B
	PR-4384A	1C29	-10 to +90 psig	1Y11	Y1131A
	PR-4385A	1C29	-10 to +90 psig	1Y21	Y2128A
3. Reactor Pressure	PR-4542	1C05	800-1100 psig	1Y23	Y2308A
	PR-4563/4	1C05	0-1200 psig	1Y23	Y2308A
	PR-4599A	1C09	0-1500 psig	1Y30	1Y303A
	PR-4599B	1C09	0-1500 psig	1Y30	2Y303B
4. Reactor Level	LR-4566	1C03	-100 to +200"	1Y21	Y2115A
	LRS-4559/60	1C05	158 to 218"	1Y23	Y2308A
5. Feedwater Flow	FR-4450B	1C05	0-8 x 10 <sup>6</sup> lb/hr	1Y23	Y2308A
6. Steam Flow	FR-4450A	1C05	0-8 x 10 <sup>6</sup> lb/hr	1Y23	Y2308A

## \*Summary of Power Sources

1Y11 and 1Y21 are diesel-generator-backed, divisional 120 Vac source  
(with manual transfer capability)

1Y23 is an uninterruptible 120 Vac source

1Y30 is interruptible RPS 120 Vac