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 MCGAUGHY, R. W. Iowa Electric Light & Power Co.
 RECIP. NAME: RECIPIENT AFFILIATION
 DENTON, H. Office of Nuclear Reactor Regulation, Director (post 851125)

SUBJECT: Application for amend to License DPR-49, consisting of Tech Spec Change Request RTS-189, extending operating cycle from 12-18 months. "Tech Spec Improvement Program: Bases for Proposed Tech Spec Changes..." encl. Fee paid.

SEE TECH SPECS PROPOSED CHANGES

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Iowa Electric Light and Power Company

April 25, 1986

NG-86-0364

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
Technical Specification Change (RTS-189)
Request for Operating Cycle Extension
File: A-6, A-117

Dear Mr. Denton:

In accordance with the Code of Federal Regulations, Title 10, Sections 50.59 and 50.90, Iowa Electric Light and Power Company hereby requests revision of the Technical Specifications (TS) for the Duane Arnold Energy Center (DAEC).

The attached TS changes and accompanying report reflect our intent to extend the DAEC operating cycle from 12 to 18 months. Some benefits of a longer operating cycle include the following:

- 1) The number of plant shutdown and cooldown cycles over the lifetime of the plant will be reduced.
- 2) Radiation exposures to personnel performing surveillance testing will be slightly reduced.
- 3) Improved capacity factor through reduction in the number of refueling outages during the plant lifetime.

The application (proposed change RTS-189) has been reviewed by the DAEC Operations Committee and DAEC Safety Committee. In accordance with the fee schedule for license amendments (10 CFR 170), a check for \$150 is enclosed. The balance of the fee will be paid upon billing.

Pursuant to the requirements of 10 CFR 50.91, a copy of this submittal, including the hazards considerations analysis, is being forwarded to our appointed state official.

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Mr. Harold Denton
April 25, 1986
NG-86-0364
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This application, which consists of three signed originals and 37 copies with their enclosures, is true and accurate to the best of my knowledge and belief.

IOWA ELECTRIC LIGHT AND POWER COMPANY

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

Subscribed and sworn to Before Me on
this 25th day of April 1986.

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

RWM/MSG/ta*

- Attachments: 1) Proposed Change RTS-189 including List of Affected Pages
2) Bases for Proposed Technical Specification Changes to Accommodate 18-Month Operating Cycles
3) Check No. 092068

cc: M. Grim
L. Liu
L. Root
M. Thadani
NRC Resident Office
J. Keppler (NRC R-III)
T. Houvenagle (ICC)

PROPOSED CHANGE RTS-189 TO THE
DUANE ARNOLD ENERGY CENTER
TECHNICAL SPECIFICATIONS

The holders of license DPR-49 for the Duane Arnold Energy Center propose to amend Appendix A (Technical Specifications) to said license by deleting current pages and replacing them with the attached, new pages. A list of the affected pages is given below.

LIST OF AFFECTED PAGES

1.0-4	3.3-2	3.8-6
1.0-7	3.5-1	3.10-1
1.0-9	3.5-2	3.10-2
3.1-1	3.5-9	3.10-5
3.1-2	3.5-11	3.10-6
3.1-8	3.5-12	3.13-3
3.1-12	3.5-27	3.13-4
3.1-14	3.6-6	3.13-5
3.1-26	3.6-12	3.13-6
3.1-27	3.7-1	3.13-7
3.2-24	3.7-4	3.13-8
3.2-25	3.7-11	6.8-2
3.2-26	3.7-13	6.8-2a
3.2-27	3.7-14	
3.2-28	3.7-15	
3.2-29	3.7-16	
3.2-30	3.7-35	
3.2-33	3.7-40	
3.2-34	3.7-44	
3.2-34a	3.7-49a	

	<u>Page</u>	<u>Description</u>
01)	1.0-4, Item 17	Add definitive statement describing the length of an operating cycle.
02)	1.0-4, Item 18	Add specific language clarifying the definition of refueling outage.
03)	1.0-7, Item 26	Revise the definition of surveillance frequency.
04)	1.0-9, Item 38	Add the definition of "annual" to the technical specifications.
05)	3.1-1, 4.1.A.2	Change the surveillance frequency for the reactor trip system from once per 18 months to once per operating cycle.
06)	3.1-2, 4.1.B.2	Revise the RPS monitoring system operability test from once per operating cycle to annually.

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	<u>Page</u>	<u>Description</u>
07)	3.1-8, Table 4.1-1	Revise RPS instrument functional tests for the "Mode Switch in Shutdown" and "Channel Test Switch" from every refueling outage to once per operating cycle.
08)	3.1-12, Table 4.1-2	Revise RPS instrument channel calibrations for "APRM Flow Bias Signal" and "High Water Level in Scram Discharge Volume" from every refueling to once per operating cycle.
09)	3.1-14, Notes for Table 4.1-2	Change Notes 3 and 5 from each refueling outage to once per operating cycle.
10)	3.1-26 Bases & 3.1-27	Revise calibration frequency of APRM Flow Biasing Network from each refueling outage to once per operating cycle.
11)	3.2-24, 3.2-25 Table 4.2-A	Revise calibration frequencies for Main Steam High Temperature, Reactor Low Water Level, Reactor Cleanup Area High Temperature and Loss of Main Condenser Vacuum instrument channels from once per operating cycle to annual. Add a "logic test frequency" column for Items 1 through 5 to denote the frequency in which the logic test is conducted.
12)	3.2-26, Table 4.2-B	Revise calibration frequencies for Items 4, 10, 13a, 13b and 14 from once per operating cycle to annual. Correct typographical errors on Items 9 and 10 from "HPIC" (sic) to "HPCI".
13)	3.2-27, Table 4.2-B	Add a "logic test frequency" column for Items 1 through 9 to reflect actual surveillance test frequency practices.
14)	3.2-28, Table 4.2-C	Revise calibration of Scram Discharge Volume High Water Level trip from every refueling to once per operating cycle.
15)	3.2-29, Table 4.2-D	Add simulated automatic isolation and logic test frequencies for Items 1, 2, 3 and 4 to reflect actual surveillance test practices. Change calibration frequency of Items 1 through 4 from once per refueling to once per operating cycle.
16)	3.2-30, Table 4.2-E	Change calibration frequency for Item 4 from once per operating cycle to annual.
17)	3.2-33, Notes for Table 4.2-A through 4.2-F	Delete simulated automatic actuation of Item 4 because Table logic test frequency columns were added to the affected tables.
18)	3.2-34, Table 4.2-G	Change instrument functional check and calibration frequency for Reactor High Pressure and Low Water Level from once per refueling cycle to annual. Change logic system test frequency for recirculation pump trip from once per refueling cycle to once per operating cycle.

	<u>Page</u>	<u>Description</u>
19)	3.2-34a, Table 4.2-H	Change calibration frequency for drywell/torus radiation monitors from once per refueling to once per operating cycle. Change the calibration frequency for the reactor building exhaust stacks, turbine building exhaust stacks and offgas stack from once per operating cycle to annual.
20)	3.3-2, 4.3.A.2.e	Change scram discharge volume vent and drain valve surveillance frequency from once per cycle to once per operating cycle.
21)	3.5-1, 4.5.A.1.a	Change core spray actuation test from once per operating cycle to annual.
22)	3.5-2, 4.5.A.3.a	Change LPCI subsystem testing from once per operating cycle to annual.
23)	3.5-9, 4.5.F.1	Change automatic depressurization system (ADS) simulated automatic actuation test from during each operating cycle to once per operating cycle and change the word "after" to "from." Change ADS accumulator check valve leakage test from each refueling outage to once per operating cycle.
24)	3.5-11, 4.5.H.2	Change LPCI and core spray pressure switches functional test from each operating cycle to annually.
25)	3.5-12, 4.5.J.1.a	Change actuation test for River Water Supply System from each refueling outage to once per operating cycle.
26)	3.5-27	Change wording from once each cycle to once per operating cycle.
27)	3.6-6, 4.6.D.2	Change relief valve disassembly and inspection from each refueling outage to once per operating cycle.
28)	3.6-12, 4.6.H.3.	Change functional tests for snubbers from once per 18 months to once per operating cycle.
29)	3.7-1, 4.7.A.1.d	Change visual inspection of the suppression chamber interior from each major refueling outage to once per operating cycle.
30)	3.7-4, 4.7.A.2.a.9	Clarify performance of Type A test from each refueling to each operating cycle or approximately every 18 months, whichever occurs first.
31)	3.7-11, 4.7.A.4.d	Change leak test of drywell to suppression chamber structure from each refueling to once per operating cycle.
32)	3.7-13, 4.7.A.6.a	Change functional test frequency of CAD system from once per operating cycle to annually.

	<u>Page</u>	<u>Description</u>
33)	3.7-14, 4.7.A.6.c	Change CAD system operability test from once per operating cycle to annually.
34)	3.7-15, 4.7.B.1.a, b, c, & e	Change Standby Gas Treatment System (SBGT) operability requirements from once per operating cycle to annually.
35)	3.7-16, 4.7.B.2.a	Change sample and analysis test for SBGT from once per year to annually.
36)	3.7-35, Bases	Change inspection of drywell and suppression chamber from each major refueling outage to once per operating cycle.
37)	3.7-40, Bases	Change CAD system operability test from once per operating cycle to annually.
38)	3.7-44, Bases	Change SBGT tests from at least once per operating cycle to annually.
39)	3.7-49a, Bases	Change MSIV-LCS blower capacity and system test from annual to once per operating cycle.
40)	3.8-6, 4.8.C.1.a	Change simulated automatic actuation test for ESW System from each refueling outage to once per operating cycle.
41)	3.10-1, 4.10.A.1 & 4.10.A.2.a	Change main control room pressure drop test from once per operating cycle to annually and tests and samples taken annually instead of once per year.
42)	3.10-2, 4.10.A.3	Change surveillance frequency for automatic initiation of the control room air treatment system from once per operating cycle to annually.
43)	3.10-2, 4.10.B.2	Change functional test of the emergency shutdown local control panel from once per refueling outage to once per operating cycle.
44)	3.10-5, Bases	Change Main Control Room Ventilation HEPA filter pressure drop test from once per operating cycle to annually.
45)	3.10-6, Bases	Change functional test of Emergency Shutdown Local Control Panel from each refueling outage to once per operating cycle.
46)	3.13-3, 4.13.B.1.e	Change the operability test for the fire pump from once per 12 months to annually. Delete the words "at least" in Items b, c, d, f and g.
47)	3.13-3, 4.13.B.1.g	Correct "specifified" (sic) to "specified."
48)	3.13-4, 4.13.B.1.h	Revise starting of the diesel fire pump to annually instead of once per 18 months. Delete the words "at least" in Items i and j.

	<u>Page</u>	<u>Description</u>
49)	3.13-5, 4.13.C.1.a	Change deluge and sprinkler systems operability demonstration from once per 12 months to annually.
50)	3.13-6, 4.13.D.1.b	Change valve operability for CO ₂ system from once per 12 months to annually.
51)	3.13-7, 4.13.E.1.b	Change the inspection of fire hoses from once per 12 months to annually. Delete the words "at least" in Items a, c and d.
52)	3.13-8, 4.13.F.1.a	Change fire barrier penetration seal inspection from each operating cycle to annually. Change at least to approximately.
53)	6.8-2, 6.8.1.11	Change leakage inspection program from each refueling cycle interval to once per operating cycle.
54)	6.8-2a, 6.8.5.1	Change leakage walkdown requirement from once per refueling cycle to once per operating cycle.