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 AUTH. NAME AUTHOR AFFILIATION
 MINECK, D.L. Iowa Electric Light & Power Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DAVIS, A.B. Region 3, Ofc of the Director

SUBJECT: Forwards exams & evaluations re licensed operator
 requalification, per 900713 CAL.

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Iowa Electric Light and Power Company

July 27, 1990

NG-90-1851

Mr. A. Bert Davis
Regional Administrator
Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Re: Duane Arnold Energy Center
Subject: Licensed Operator Requalification
Documentation of Remedial and Enhanced Training
Reference: 1) Confirmatory Action Letter, A.B. Davis to L. Liu,
dated July 13, 1990
2) Letter NG-90-1791, D. Mineck to A.B. Davis, dated
July 20, 1990
File: A-204h, A-204t

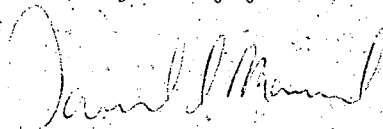
Dear Mr. Davis:

Please find enclosed copies of the examinations and evaluations in accordance with Item G. of the subject Confirmatory Action Letter (CAL). The enclosed documentation is for the second two crews which received the first 30 hours of accelerated remedial or enhanced training required by Items A. and B. of the CAL.

Both types of training are being conducted in segments of 30 hours and 20 hours. The examinations consist of evaluated simulator scenarios. Copies of the scenarios, the Instructor Guide, and Student Guides used during the first segment of enhanced training were enclosed with Reference 2).

If you have any questions, please contact either myself or Steve Swails, Training Superintendent, at (319)851-7795.

Very truly yours,



Daniel L. Mineck
Manager, Nuclear Division

DLM/SS

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FIC

Mr. A. Bert Davis
NG-90-1851
Page 2

Attachments (1) LOR Remedial Training evaluations for 7/17/90 -
7/19/90 class
(2) LOR Remedial Training evaluations for 7/20/90 -
7/22/90 class

cc: U. S. NRC Document Control Desk (Original)
L. Liu w/o
L. Root w/o
R. McGaughy w/o
J. R. Hall (NRR) w/o
NRC Resident Inspector - DAEC w/o
Commitment Control No. 900207 w/o

**REMEDIAL REQUAL TRAINING (500-008)
SCHEDULE**

DATES: 7-17-90 to 7-19-90

INSTRUCTORS: Larry Heckert
Tim Page
Merle Pettengill

OPERATORS: Wayne Bentley
Tom Zimmerman
Ken Thomas
Joel Easton

SIMULATOR TRAINING CONTENT:

DAY #1

ESG #15	Simulator Exercise Guides
REM 90-6	Simulator Exercise Guides
REM 90-5	Simulator Exercise Guides
REM 90-2	Simulator Exercise Guides

DAY #2

ESG #8	Simulator Exercise Guides
REM 90-1	Simulator Exercise Guides
REM 90-4	Simulator Exercise Guides
REM 90-2	Simulator Exercise Guides

DAY #3

REM 90-2	Simulator Exercise Guides
REM 90-10	Simulator Exercise Guides
REM 90-9	Simulator Exercise Guides
ESG #3	Simulator Exercise Guides

PLEASE USE BLACK INK

COURSE QUOTA CONTROL LOG
IOWA ELECTRIC TRAINING CENTER
 COURSE: 500-008 Licensed Operator Requal
 Cycle N/A ~~Exam~~
 INSTRUCTOR: LH1 SPONSOR: 0001

7-17-90 TO 7-19-90

CLASS HOURS: 30

LOCATION: SIM

WEEK 1 OF 1 WEEKS

COURSE LENGTH: 240 hrs.

TIME: 0700 - 1700

CLCVN DATE: 7-17-90

NAME	EXT.	TLD #	SSN	CO.	SIGNATURE
1. WAYNE BENTLEY	7266	209	474629408	IE	<i>[Signature]</i>
2. TOM ZIMMERMAN	7266	0131	472-60-6514	IE	<i>[Signature]</i>
3. KEN THOMAS	7266				
4. JOEL EASTON	7266				<i>[Signature]</i>
5.					
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These individuals did in fact attend all 30 hours of this course

STUDENT SIMULATOR PROGRESS EVALUATION

Student Name WAYNE BENTLEY

Dates Covered 7/17/90 - 7/19/90

Position RO/SRO/STA

Week/Cycle # REMEDIAL TNG

Class IILC/UPGRADE/STA/REQUAL

SCENARIO NO.	PROBLEMS NOTES	CORRECTIVE ACTION
Day 1 OSS A { ESG-15 REM-90-6 OSS B { REM-90-5 REM-90-2	1. SLOW TO EVALUATE EAL 2. MORE COMMS NEEDED 1. PURSUE DRIVING RODS MORE 1. NO COMMENTS 1. NEED TO PURSUE EAL	
Day 2 (OSS B) ESG 8 (OSS B) REM 90-1 (OSS A) REM 90-4 (OSS B) REM 90-2	1. DECLARED B-2 VS C-2 EAL (CT) 2. DID NOT ADDRESS ROD INOP PACKAGE PER T.SPEC. (CT) 1. NEED LEVEL CONTROL PLAN (PREVENT OVERFLOW) 1. LATE TO ED AT 15" 1. NONE	
Day 3 (OSS B) REM 90-2 (OSS A) REM 90-10 (OSS B) REM 90-9 ↓ ESG 3	1. EOP-3 MISSED 1. GOOD CHECK EOP-3 TEMPS, DROWELL PARAMETERS 1. SLOW ON EAL 1. GOOD EAL	
Day 4		
Day 5		

Attached pages Yes No

Student Review Signature _____ Date _____

Wayne Bentley 7/19/90
Instructor(s) Signature(s) Date(s)

STUDENT SIMULATOR PROGRESS EVALUATION

Student Name TOM ZIMMERMAN

Dates Covered 7/17 - 7/19/90

Position RO/SRO/STA

Week/Cycle # REMEDIAL

Class IILC/UPGRADE/STA/REQUAL

SCENARIO NO.	PROBLEMS NOTES	CORRECTIVE ACTION
Day 1 ESG-15	1. SLOW TO EVALUATE EAL	
(OSS B) REM-90-6	1. GOOD SUPPORT OF OSS A	
(OSS A) REM-90-5	1. CHECK DSIL CURVE BEFORE SPRAYING & DRYWELL 2. SPRAYED TOWLS AT 1# IN TORUS	
(OSS A) REM-90-2	1. NEED TO STAY BACK - MAINTAIN BIG PICTURE (OFF THE PANELS)	
Day 2 ESG 8	1. DECLARED B-2 (C-2 REQUIRED) (CT)	
(OSS A) REM 90-1	1. NEED TO TAKE CONTROL - DON'T ASK TOO MANY QUESTIONS TO OSS B	
(OSS B) REM 90-4	1. NONE	
(OSS A) REM 90-2 (MOD)	1. LATE TO ED (-40) - KEEP FOCUS ON LEVEL (CT) 2. SHOULD PURSUE ORIGINAL IDEA TO DEPRESS VIA BYPASS VALVES 3. DON'T GIVE P's LONG ORDERS WITH VALVES/PUMPS	
Day 3 (OSS A) REM 90-8	1. SPRAYED DW OUTSIDE OF DSIL 2. NO EDP-3 ENTRY	
(OSS B) REM 90-10	1. NONE	
(OSS A) REM 90-9	1. SLOW ON EAL 2. HPCI INJECTION ON ATWS	
↓ ESG 3	1. GOOD COMMS, TRENDING, EAL	
Day 4		
Day 5		

Attached pages Yes No

Student Review Signature _____ Date _____

[Signature] 7/19/90
Instructor(s) Signature(s) / Date(s)

STUDENT SIMULATOR PROGRESS EVALUATION

Student Name KEN THOMAS

Dates Covered 7/17/90 - 7/19/90

Position RO/SRO/STA

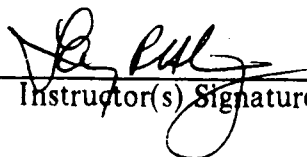
Week/Cycle # REMEDIAL

Class HLC/UPGRADE/STA REQUAL

SCENARIO NO.	PROBLEMS NOTES	CORRECTIVE ACTION
Day 1 ESG-15 REM-90-6 REM-90-5 REM-90-2	1. DID NOT MAX TORUS COOLING AS DIRECTED (4th RHROW) (CT) 2. RCIC VALVE LOGIC CONFUSION 1. NO COMMENTS 1. MORE TRENDING, LESS COMMS ON MINOR THINGS	
Day 2 ESG 5 REM 90-1 REM 90-4 REM 90-2 (MOD)	1. DID NOT CATCH STEAM TUNNEL AT - WAITED ON OTHER TEMPS. 2. SLOW TO MANUALLY DO A GROUP 1 1. NEED TO ANTICIPATE LOSS OF CONDENSATE WITH GP 1. 1. NONE 1. BETTER COMMS	
Day 3 REM 90-8 REM 90-10 REM 90-9 ESG 3	1. EOP-3 TEMPS - NO ENTRY 1. USE VALWAYS IF AVAILABLE - NOT JUST PUEL ZONE 1. GOOD LEVEL CONTROL 1. GOOD COMMS	
Day 4		
Day 5		

Attached pages Yes No

Student Review Signature _____ Date _____


 Instructor(s) Signature(s) _____ Date(s) 7/19/90

STUDENT SIMULATOR PROGRESS EVALUATION

Student Name JOEL EASTON

Dates Covered 7/17 - 7/19/90

Position RO/SRO/STA

Week/Cycle # Remedial

Class HLC/UPGRADE/STA/REQUAL

SCENARIO NO.	PROBLEMS NOTES	CORRECTIVE ACTION
Day 1 ESG-15	1. COMMUNICATIONS - LOUDER + TEND MORE 2. YARWAYS UNRELIABLE <SUOT#	
REM 90-6	1. NEED MORE FEEDBACK TO OSS	
REM 90-5	1. NEED WORK ON VESSEL OVERFILL	
REM 90-2	1. SLOW TO NOTICE HPCI INJECTION	
Day 2 ESG 8	1. GOOD LEVEL CONTROL	
REM 90-1	1. SECURE ECCS ONLY WHEN CONTINUOUS LEVEL RECOVERY ASSURED	
REM 90-4	1. REPORT ECCS STATUS CHANGES TO OSS 2. LATE TO REPORT AT 15"	
REM 90-2 (AMP)	1. ED AT -40" (E)	
Day 3 REM 90-8	1. TALK LOUDER	
REM 90-10	1. MAXIMIZE DRYWELL SPRAY 2. BETTER FEEDBACK	
REM 90-9	1. SLOW TO CATCH HPCI INJECT, POWER SPIKE TO 30%, TALK LOUDER	
ESG	1. PURSUE RTR PUMPS QUICKLY + ANTICIPATE PROBLEMS	
Day 4		
Day 5		

Attached pages Yes No

Student Review Signature _____ Date _____

[Signature] 7/19/90
Instructor(s) Signature(s) / Date(s)

**REMEDIAL REQUAL TRAINING (500-008)
SCHEDULE**

DATES: 7-20-90 to 7-22-90

INSTRUCTORS: Kye Dawald
Charlie Tirella
Ellis Vann

OPERATORS: John Christensen
Stan Van Aartsen
Stephen P. Rohr
Jerry Mellem
Dwight Barton
Scott Arebaugh

Jerry Mellem received 20 hours remedial training on July 20, 1990 and July 21, 1990. He received 10 hours on previously submitted quota control log dated July 16, 1990.

Scott Arebaugh received 10 hours remedial training on July 22, 1990. He received 20 hours on previously submitted quota control logs dated July 14, 1990 and July 15, 1990.

SIMULATOR TRAINING CONTENT:

DAY #1

ESG #15	Simulator Exercise Guides
REM 90-6	Simulator Exercise Guides
REM 90-5	Simulator Exercise Guides
REM 90-2	Simulator Exercise Guides
ESG #15	Simulator Exercise Guides

DAY #2

ESG #8	Simulator Exercise Guides
REM 90-10	Simulator Exercise Guides
REM 90-2	Simulator Exercise Guides
REM 90-7	Simulator Exercise Guides
REM 90-12	Simulator Exercise Guides

DAY #3

ESG #3	Simulator Exercise Guides
REM 90-8	Simulator Exercise Guides
REM 90-10	Simulator Exercise Guides
REM 90-5	Simulator Exercise Guides
ESG #15	Simulator Exercise Guides
ESG #3	Simulator Exercise Guides

PLEASE USE BLACK INK

COURSE QUOTA CONTROL LOG
 IOWA ELECTRIC TRAINING CENTER
 COURSE: 500-008

7/20/90 TO 7/22/90

CLASS HOURS:

INSTRUCTOR: KD1 SPONSOR: LOCATION: WEEK OF WEEKS

COURSE LENGTH: 30 hrs. TIME: CLCVN DATE: / / 90

NAME	EXT.	TLD #	SSN	CO.	SIGNATURE
1. J. Christensen	7610	141	485849850	1E	<i>J. Christensen</i>
2. S. VAN AARTSEN	7809	329	482729703	1E	<i>S. Van Aartsen</i>
3. Stephen P. Rohr	262	89	479488945	1E	<i>Stephen P. Rohr</i>
4. J. L. Mellem	7262	534	389601686	1E	<i>J. L. Mellem</i>
5. D. Boyer	7262	208	418354837	1E	<i>D. Boyer</i>
6. Arebaugh	7262	729	288-62-9474	1E	<i>S. Arebaugh</i>
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STUDENT SIMULATOR PROGRESS EVALUATION

Student Name BUD BARTON

Dates Covered 7/20/90 - 7/22/90

Position RO(SRO)STA

Week Cycle # _____

Class ILLC/UPGRADE/STA(REQUAL)

SCENARIO NO.	PROBLEMS NOTES	CORRECTIVE ACTION
Day 1 7/20/90	ESG #15 A'oss → ① Power Level control did NOT secure HPCI/RCIL ② Prioritization of Tasks ③ Need to anticipate steps of EOP's REM 90-6 B'oss → Need to anticipate ED also available RPV Level instruments REM 90-5 A'oss → NEED TO B/P MSIV LO ³ ISOLATION FOR POWER LEVEL CONTROL ESG #15 A'oss →	RERAN SCENARIO CRITIQUED RERAN & CRITIQUED
Day 2 7/21/90	ESG #8 A'oss - NEED TO ANTICIPATE ED and LISTEN TO COMMUNICATIONS BETTER REM 90-10 B'oss - STRIP LOADS ON IAZ PRIOR TO REENERGIZING REM 90-2 A'oss LOCKOUT ADS TIMERS <u>EVEN IF</u> TIMED OUT REM 90-7 B'oss REM 90-12 A'oss * NEED TO ANTICIPATE STEPS IN EOP'S (CAN'T READ WORD FOR WORD DURING EMERGENCY.)	CRITIQUED " " CRITIQUED
Day 3 7/22/90	ESG #3 A'oss 1) DID NOT DIRECT LEVEL BAND 170-211" REM 90-8 B'oss 2) ADS TIMERS INITIATED w/o BYPASS REM 90-10 A'oss REM 90-5 B'oss ESG #15 A'oss ① Enter COP-1 First. ② Power/level control carried at 113°F TIT. ③ Watch for SOAV closure ESG #3	RERAN & CRITIQUED CRITIQUED
Day 4		
Day 5		

Attached pages Yes No

Student Review Signature _____ Date _____

Rye L. Dawald 7/24/90
 Instructor(s) Signature(s) Date(s)

STUDENT SIMULATOR PROGRESS EVALUATION

Student Name JOHN CHRISTENSEN

Dates Covered 7/20/90 - 7/22/90

Position RO (SRO) STA

Week/Cycle # _____

Class ILC/UPGRADE/STA (REQUAL)

SCENARIO NO.	PROBLEMS NOTES	CORRECTIVE ACTION
Day 1 7/20/90 ESG-15 "B" OSS REM 90-6 "A" OSS REM 90-5 "B" OSS REM 90-2 "A" OSS ESG #15 "B" OSS	① DIDN'T SECURE SBDG W/NO ESW ② NEED TO ISOLATE RCIC + MSIVS IN RPV/L	CRITIQUED RERAN SCENARIO
Day 2 7/21/90 ESG #8 "B" OSS REM 90-10 "A" OSS REM 90-2 "B" OSS REM 90-7 "A" OSS REM 90-12 "B" OSS	NEED TO B/P H ₂ O sample for EOP-2 ① FAILED CRITICAL TASK ON DIRECTING LEVEL BAND. LEVEL WENT TO -61". ② ADS INITIATION (UNAWARE OF THIS) NEED TO CHECK IF LLS CONTROLLING PRESSURE	RERAN SCENARIO CRITIQUED
Day 3 7/22/90 ESG #3 "B" OSS REM 90-8 "A" OSS REM 90-10 "B" OSS REM 90-5 "A" OSS ESG #15 "B" OSS ESG #3 "A" OSS	LEVEL INSTRUMENT AVAILABILITY (WHICH ONES FOR RPV/L WERE AVAILABLE?) ① NEED TO BE MORE ASSERTIVE ON DIRECTIONS (ESPECIALLY RECIRC PUMP ISOLATION)	CRITIQUED CRITIQUED
Day 4		
Day 5		

Attached pages Yes

No

Student Review Signature _____ Date _____

Kye L. Dawalt 7/24/90
 Instructor(s) Signature(s) Date(s)

STUDENT SIMULATOR PROGRESS EVALUATION

Student Name STEPHEN ROHR

Dates Covered 7/20/90 - 7/22/90

Position (RO) SRO/STA

Week Cycle # _____

Class IILC/UPGRADE/STA (REQUAL)

SCENARIO NO.	PROBLEMS NOTES	CORRECTIVE ACTION
Day 1 7/20/90 ESG -15 NSOE REM 90-6 ANSOE REM 90-5 NSOE REM 90-2 ANSOE ESG -15 NSOE	— Use mod. sw. key for SBLC — OPRNED 2 ADS / 2 LLS VALVES and Wanted 4 ADS VALVES	CRITIQUED CRITIQUED + REGRAN SCENARIO
Day 2 7/21/90 ESG #8 NSOE REM 90-10 ANSOE REM 90-2 NSOE REM 90-7 ANSOE REM 90-12 NSOE	{ 1) BIP 2/3 CORE COVERAGE w/o EDP DIRECTION 2) WENT TO -61" ON RPV/LEVEL 3) ADS INITIATED - UNWARE	REGRAN SCENARIO } CRITIQUED
Day 3 7/22/90 ESG -3 NSOE REM 90-8 ANSOE REM 90-10 NSOE REM 90-5 ANSOE ESG -15 NSOE ESG -3 ANSOE	1) DID NOT CONTROL LEVEL IN LEVEL BAND 2) ADS TIMERS INITIATED AGAIN UNWARE 3) DO NOT SPRAY DW IF ISOLATE ON < 2 # AND NOT DIRECTED BY SRO ON RESPRAY 4) NEED TO BE AWARE OF RELIEF GOING CLOSED POWER CHANGES!	REGRAN SCENARIO CRITIQUED CRITIQUED
Day 4		
Day 5		

Attached pages Yes No

Student Review Signature _____ Date _____

Kyle L. Dawald 7/24/90
 Instructor(s) Signature(s) Date(s)

STUDENT SIMULATOR PROGRESS EVALUATION

Student Name JERRY MELLEM

Dates Covered 7/20/90 - 7/22/90

Position (R) SRO/STA

Week/Cycle # _____

Class III C/UPGRADE/STA (REQUAL)

SCENARIO NO.	PROBLEMS NOTES	CORRECTIVE ACTION
Day 1 7/20/90 ESG-15 ANSOE REM 90-6 NSOE REM 90-5 ANSOE REM 90-2 NSOE ESG-15	1) DID NOT PERFORM AND FOR SDRV CORRECTLY 2) CLOSE FRV and DO NOT TRIP PUMPS UNLESS NECESSARY ON ATWC POWER/LEVEL CONTROL	CRITIQUED: PROGRAM SCENARIO
Day 2 7/21/90 ESG-8 ANSOE REM 90-10 NSOE REM 90-2 ANSOE REM 90-7 NSOE REM 90-12 ANSOE	COMMUNICATIONS ON ADS TIMER INITIATION WEAK. CALLED OUT TO ANNUNCIATOR NO RESPONSE	CRITIQUED
Day 3 7/22/90 DID NOT ATTEND		
Day 4		
Day 5		

Attached pages Yes No

 Student Review Signature Date

Kyle L. Dawall 7/24/90
 Instructor(s) Signature(s) Date(s)

STUDENT SIMULATOR PROGRESS EVALUATION

Student Name SCOTT AREBAUGH

Dates Covered 7/20 - 7/22/90

Position (RO) SRO/STA

Week/Cycle # _____

Class IILC/UPGRADE/STA (REQUAL)

SCENARIO NO.	PROBLEMS NOTES	CORRECTIVE ACTION
Day 1 7/20/90	DID NOT ATTEND	
Day 2 7/21/90	DID NOT ATTEND	
Day 3 7/22/90	ESG-3 ANSOE — UNAWARE OF ADS INITIATION REM 90-8 NSOE — LEVEL INST. AVAILABILITY REM 90-10 ANSOE REM 90-5 NSOE ESG-15 ANSOE — CHECK FOR SORV CLOSURE ON POWER CHANGES ESG-3 NSOE	CRITIQUED / RERAN SCENARIO "
Day 4		
Day 5		

Attached pages Yes No

Student Review Signature Date

Kyle L. Dawald 7/24/90
Instructor(s) Signature(s) Date(s)

ESC # 3

184260
180
18 + 140

LIST OF CRITICAL TASKS

264570
2+0
330

Common actions

Scott A
John C

John C

Circled entries at

main tank
→ 2 psig
throttled

write
on chart

CRITICAL TASKS	RO/SRO
1. Attempt to isolate recirc pump Reduce Recirc flow Close A DISCH Valve Secure Pump Close A DISCH BYP valve Close A SUCT valve	RO/ANSOE (C.0024)
2. Direct required actions for loss of Recirc Pump due to seal failure. Order pump to be isolated Order STP 46F002 started per Tech Specs	SRO (C.0020)
3. Direct actions per EOP 1 a. Enter EOP 1 on all entry conditions b. Direct level restoration to 170-211 (ensure level does not rise above 250")	SRO (TTT.0011)
4. Restore RPV level 170-211 using CRD and ECCS and RWCU for draining a. RPV level does not exceed 250".	RO/NSOE (TTT.0011)
5. Direct actions per EOP 2 a. Enter EOP 2 on DW HI Press, DW HI Temp b. Direct initiation of torus spray and/or DW spray to reduce containment pressure prior to pressure reaching pressure suppression pressure limit. c. Direct DW sprays be initiated prior to reaching DW temp of 280°F if meet conditions d. If exceed 280° Emergency Depressurize	SRO (TTT.0012)
6. Initiate DW sprays prior to DW temp reaching 280°F when directed a. Satisfy containment spray logic b. Start RHR pump c. Open Inboard and Outboard DW spray valves	RO/NSOE (TTT.0012)
7. EAL declaration B-1 (LOCA > 50 gpm but within makeup)	SRO (UUU.0050)
8. Notify state and county within 15 min., notify NRC within one hour (the NRC notification may not be completed due to scenario time limit). Plant evacuation initiated. Evaluate	SRO (UUU.0051) (UUU.0052) (UUU.0052)
9. Perform STP 46F002 and reduce power with rods per the pull sheet.	RO/ANSOE

Steve Rohr
1/1

John C
1/1

John C 2/2

Scott A. 1/1
Steve Rohr 2/2

John C
3/3

Scott A. 2/2

John C 4/4

Bud B. 1/1

N/A

Note: Critical Tasks may be assigned to specific individuals; however, any crew member may perform the task without causing a failure of the assigned individual.

- EPIP's
A.L.C.
EDP's (Bud)
Communications (Steve R.)
Face - Face