



Commonwealth Edison

One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

September 28, 1984

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

Subject: Braidwood Station Units 1 and 2
Request for Examples from
Observation Training Per 10 CFR 55.7
NRC Docket Nos. 50-456 and 50-457

- References (a): Administration of Operating Tests
Prior to Initial Criticality (Generic
Letter No. 84-10).
- (b): April 13, 1984 letter from E. D. Swartz
to H. R. Denton concerning Braidwood
Operating Shift Experience.

Dear Mr. Denton:

Reference (a) required Observation Training for individuals without "extensive actual operating experience at a comparable facility." In accordance with reference (a) and 10 CFR 55.7, Commonwealth Edison requests exemptions from Observation Training for selected individuals who have accumulated experience levels that may permit waiver of this requirement.

Operating experience data sheets have been completed and are enclosed for all current license candidates. The data has been determined in the same manner as previous Byron Station submittals.

Exemptions from the Observation Training requirements are requested for those personnel with a minimum 36 months total nuclear plant experience as calculated by the conservative methods on the data sheets. This level of experience was chosen because we feel it satisfies the intent of the requirement for such a program.

Two additional exemptions for people who do not meet the 36 month minimum are requested for the individuals listed below. Amplifying rationale is also provided.

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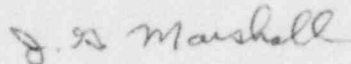
<u>NAME</u>	<u>RATIONALE</u>
Sanborn	Over seven years Navy nuclear experience plus EWS qualification for 15 months have given him significant operating experience at power reactors.
Weber	Has previously held an RO license at an operating PWR and has thus gained actual operating experience in the control room.

The name of each individual for whom an exemption is requested has a triangle (▲) above it. A response from the NRC by December 1, 1984 will enable Braidwood Station to schedule people from Observation Training on the basis of whether or not they are exempted from that requirement. We would appreciate a response by then.

Please direct any questions you may have concerning this matter to this office.

One signed original and fifteen copies of this letter and its attachment are provided for your use.

Very truly yours,



J. G. Marshall
Nuclear Licensing Administrator

lm

cc: Joe Millan - Region III
Don Beckham - NRR, Operating License Branch

Attachment (1): Operating Shift Experience Data Sheets (10 pages)

DATE 8/31/84
 PLANT NAME Braidwood
 UTILITY Commonwealth Edison
 O.L. DATE August 1985

NUCLEAR POWER PLANT EXPERIENCE
 FOR OPERATING SHIFT POSITIONS (NOTE 1)

OPERATING SHIFT EXPERIENCE

JOB TITLE: SROs (not on shift)
 (NOTE 2)

ENTER DATA: MONTHS/MONTHS x WEIGHTING FACTOR

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	ENTER DATA: MONTHS/MONTHS x WEIGHTING FACTOR							
			Masters	McGee	Cretens	Schuman	Jackson	Funke		
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT								
2. OTHER COMMERCIAL SRO	.75	NO LIMIT		4.5 m 6 m	18 m 24 m					
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT								
4. OTHER COMMERCIAL RO	.75	NO LIMIT								
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EOW, PWS) (OTHER)	.50 .25	36 MONTHS	36 m 72 m	3 m 6 m	30 m 60 m	35 m 70 m	15 m 30 m	13.5 m 27 m		
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	3.5 m 3 w 4 w	3.5 m 3 w	3 m 4 w					
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	.75 .50	24 MONTHS (12 MONTHS) (12 MONTHS)	3 m 6 m							
8. LICENSED CLASSROOM TRAINING AND EXAM	.50	9 MONTHS	6 m 12 m	3 m 6 m	3 m 6 m					
9. PARTICIPATION AT OPERATING PLANT	.75	12 MONTHS								
10. OTHER NUCLEAR PLANT EXPERIENCE	.25	12 MONTHS	12 m 90 m	12 m 79 m	12 m 93 m	1.5 m 7 m	1.5 m 7 m	5.5 m 22 m		
11. CONDUCTING LICENSE TRAINING	.25	9 MONTHS		1.5 m 6 m						
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)	12 m BSEE	12 m MBA MS-MATH	12 m BSEE		12 m BS	12 m BSNE		
TOTAL NUCLEAR PLANT EXPERIENCE:			75.5 m	39.5 m	78 m	36.5 m	39.5 m	31 m		
<u>HOT PARTICIPATION EXPERIENCE</u>										
TIME 20% PWR/BWR (WKS)				15 w (BWR)	52w (BWR)					
STARTUP & SHUTDOWN (YES/NO)				yes (BWR)	yes (BWR)					
MONTHS ON SHIFT				6 m (BWR)	24 m (BWR)					

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

CHECK ONE OF THE FOLLOWING:

- a. Shift advisors must be used to satisfy the "hot participation experience" requirements of the utility plan.
- b. Shift advisors will probably be required, at least for some shifts.
- c. Do not plan to use shift advisors unless some unforeseen circumstance arises.

DATE 8/31/84
 PLAN NAME Braidwood
 UTILITY Commonwealth Edison
 O.L. DATE August 1985

NUCLEAR POWER PLANT EXPERIENCE
 FOR OPERATING SHIFT POSITIONS (NOTE 1)

OPERATING SHIFT EXPERIENCE

JOB TITLE: Shift Engineer
 (NOTE 2)

ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	OPERATING SHIFT EXPERIENCE																	
			Herbert	Chovan	Bowers	P. Smith	McCue	Petro												
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT																		
2. OTHER COMMERCIAL SRO	.75	NO LIMIT	18 m		17 m															
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT	24 m		23 m															
4. OTHER COMMERCIAL RO	.75	NO LIMIT																		
5. NAVY (MILITARY) NUCLEAR (RO, E.S., EOOW, PPWS) (OTHER)	.50 .25	36 MONTHS																		
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	3.5 m	3.5 m	3.5 m	3.5 m														
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1½ YEARS PRIOR TO F.L.) (MORE THAN 1½ YEARS PRIOR TO F.L.)	.75 .50	24 MONTHS (12 MONTHS) (12 MONTHS)	3 w	3 w	3 w	3 w														
8. LICENSED CLASSROOM TRAINING AND EXAM	.50	9 MONTHS	5 m	5.5 m	5 m	2.5 m														
9. PARTICIPATION AT OPERATING PLANT	.75	12 MONTHS	6 m	3 m	6 m	3 m	6 m	3 m												
10. OTHER NUCLEAR PLANT EXPERIENCE	.25	12 MONTHS	54 m	12 m	60 m	12 m	12 m	12 m	12 m	12 m	11.5 m									
11. CONDUCTING LICENSE TRAINING	.25	9 MONTHS																		
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)	12 m	12 m	12 m	12 m	12 m	12 m	12 m	12 m	12 m									
TOTAL NUCLEAR PLANT EXPERIENCE:			52 m	30.5 m	50 m	30.5 m	24 m	38 m												
<u>HOT PARTICIPATION EXPERIENCE</u>																				
TIME 20% PWR/BWR (WKS)			66 w (BWR)	*26 w	63 w (BWR)															
STARTUP & SHUTDOWN (YES/NO)			yes (BWR)	yes	yes (BWR)															
MONTHS ON SHIFT			24 m (BWR)	6 m	23 m (BWR)															

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

* This time is based on 100% availability of CECO's Zion Nuclear Power Station

CHECK ONE OF THE FOLLOWING:

- a. Shift advisors must be used to satisfy the "hot participation experience" requirements of the utility plan.
- b. Shift advisors will probably be required, at least for some shifts.
- c. Do not plan to use shift advisors unless some unforeseen circumstance arises

DATE 8/31/84
 PLANT NAME Braidwood
 UTILITY Commonwealth Edison
 G.L. DATE August 1985

OPERATING SHIFT EXPERIENCE

JOB TITLE: Shift Control Room Engineer
 (NOTE 2)

NUCLEAR POWER PLANT EXPERIENCE
 FOR OPERATING SHIFT POSITIONS (NOTE 1)

ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR											
			Shim	Nalewajka	Maier	Anderson	Cooper	Stiller	Peterson	Malkewicz				
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT												
2. OTHER COMMERCIAL SRO	.75	NO LIMIT												
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT												
4. OTHER COMMERCIAL RO	.75	NO LIMIT												
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EOOW, PPWS) (OTHER)	.50 .25	36 MONTHS		24 m 48 m			12 m 48 m							
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	3.5 m 3 w	3.5 m 3 w			3.5 m 3 w 4 w							
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	.75 .50	24 MONTHS (12 MONTHS) (12 MONTHS)	3.5 m 5 m	0.5 m 1 m							5 m 10 m			
8. LICENSED CLASSROOM TRAINING AND EXAM	.50	9 MONTHS	6 m 3 m	6 m 3 m			12 m 6 m							
9. PARTICIPATION AT OPERATING PLANT	.75	12 MONTHS												
10. OTHER NUCLEAR PLANT EXPERIENCE	.25	12 MONTHS	16 m 4 m		22 m 5.5 m	19 m 4.5 m	4 m 1 m	21 m 10.5 m	9 m 2 m					
11. CONDUCTING LICENSE TRAINING	.25	9 MONTHS					44 m 9 m							
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)	12 m BSME	12 m BS-Physics	12 m BSME	12 m BSME	12 m BS-Biology	12 m BSME	12 m BSME	12 m BSME	12 m BSME			
TOTAL NUCLEAR PLANT EXPERIENCE:			26 m	43 m	17.5 m	16.5 m	46.5 m	22.5 m	14 m	17 m				
<u>HOT PARTICIPATION EXPERIENCE</u>														
TIME 20% PWR/BWR (WKS)														
STARTUP & SHUTDOWN (YES/NO)														
MONTHS ON SHIFT														

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

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- b. Shift advisors will probably be required, at least for some shifts.
- c. Do not plan to use shift advisors unless some unforeseen circumstance arises.

DATE 8/31/84

PLANT NAME Braidwood

UTILITY Commonwealth Edison

O.L. DATE August 1985

NUCLEAR POWER PLANT EXPERIENCE
FOR OPERATING SHIFT POSITIONS (NOTE 1)

OPERATING SHIFT EXPERIENCE

JOB TITLE: Shift Foreman
(NOTE 2)

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR											
			Higinbotham	Bush	Meents	McCoy	Best	Choinicki	Swift	Weber	Baer	Habel		
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT	/	/	/	/	/	/	/	/	/	/	/	/
2. OTHER COMMERCIAL SRO	.75	NO LIMIT	/	/	/	/	/	/	/	/	/	9 m	7 m	/
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT	/	/	/	/	/	/	/	34 m	12 m	12 m	/	/
4. OTHER COMMERCIAL RO	.75	NO LIMIT	/	20 m	15 m	36 m	/	/	/	34 m	12 m	/	32 m	/
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EOOW, PPWS) (OTHER)	.50 .25	36 MONTHS	42 m	21 m	/	/	120 m	36 m	12 m	/	/	48 m	12 m	6 m 15 m
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	3 w	3.5 m	3.5 m	3.5 m	/	3 m	3 m	/	/	/	/	3 m
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	.75 .50	24 MONTHS (12 MONTHS) (12 MONTHS)	6 m 3 m	4.5 m 1.5 m	1 m	1 m	/	12 m	12 m	/	/	/	/	12 m
8. LICENSED CLASSROOM TRAINING AND EXAM	.50	9 MONTHS	6 m	3 m	6 m	3 m	6 m	3 m	6 m	3 m	/	/	/	6 m 3 m
9. PARTICIPATION AT OPERATING PLANT	.75	12 MONTHS	42 m	12 m	6 m	12 m	50 m	12 m	13 m	9 m	7 m	12 m	12 m	/
10. OTHER NUCLEAR PLANT EXPERIENCE	.25	12 MONTHS	/	5 m	1 m	/	/	9 m	18 m	4.5 m	7 m	1.5 m	2 m	4 m
11. CONDUCTING LICENSE TRAINING	.25	9 MONTHS	/	/	/	/	54 m	/	/	/	8 m	16 m	/	24 m
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)	/	1 m	/	/	/	/	/	6 m	/	6 m	5 m	6 m
				13 hrs						AS		AAS	55 sem. hrs.	AS
TOTAL NUCLEAR PLANT EXPERIENCE:			45.5 m	36.5 m	55.5 m	45 m	43.5 m	32.5 m	48 m	34 m	61 m	51 m		
<u>HOT PARTICIPATION EXPERIENCE</u>														
TIME 20% PWR/BWR (WKS)				54 w (BWR)	134 w (BWR)						* 93 w	*33 w	107 w (BWR)	
STARTUP & SHUTDOWN (YES/NO)				yes (BWR)	yes (BWR)						yes	yes	yes (BWR)	
MONTHS ON SHIFT				20 M (BWR)	49 m (BWR)						34 m	12 m	52 m (BWR)	

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

* This time is based on 75% availability of CECO's Zion Nuclear Power Station

** This time is based on 75% availability of Wisconsin Electric Power's Point Beach Nuclear Power Station

CHECK ONE OF THE FOLLOWING:

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- b. Shift advisors will probably be required, at least for some shifts.
- c. Do not plan to use shift advisors unless some unforeseen circumstance arises

DATE 8/31/84
 PLANT NAME Braidwood
 UTILITY Commonwealth Edison
 O.L. DATE August 1985

OPERATING SHIFT EXPERIENCE

NUCLEAR POWER PLANT EXPERIENCE
 FOR OPERATING SHIFT POSITIONS (NOTE 1)

JOB TITLE: Shift Foreman
 (NOTE 2)

ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR							
			Scharie	Eckert	Krize	Jensen	Ramsey	Receveur		
1. SAME TYPE COMMERCIAL SRD	1.00	NO LIMIT								
2. OTHER COMMERCIAL SRU	.75	NO LIMIT								
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT								
4. OTHER COMMERCIAL RO	.75	NO LIMIT								
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EDOW, PPWS) (OTHER)	.50 .25	36 MONTHS			14 m	36 m	24 m	22.5 m		
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	3 m 4 w	3 m 4 w		3 m 4 w		3 m 4 w		
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	.75 .50	24 MONTHS (12 MONTHS) (12 MONTHS)	12 m 30 m	12 m 40 m		4.5 m 6 m 12 m 42 m		12 m 43 m		
8. LICENSED CLASSROOM TRAINING AND EXAM	.50	9 MONTHS	3 m 6 m	3 m 6 m		3 m 6 m		3 m 6 m		
9. PARTICIPATION AT OPERATING PLANT	.75	12 MONTHS	12 m 30 m	12 m 36 m				12 m 24 m		
10. OTHER NUCLEAR PLANT EXPERIENCE	.25	12 MONTHS	11 m 44 m	5.5 m 22 m	12 m 98 m	4.5 m 18 m	4 m 17 m	1 m 5 m		
11. CONDUCTING LICENSE TRAINING	.25	9 MONTHS					2 m 9 m			
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)			6 m AS					
TOTAL NUCLEAR PLANT EXPERIENCE:			41 m	35.5 m	32 m	63 m	30 m	53.5 m		
<u>HOT PARTICIPATION EXPERIENCE</u>										
TIME 20% PWR/BWR (WKS)				* 26 w						
STARTUP & SHUTDOWN (YES/NO)				yes						
MONTHS ON SHIFT				6 m						

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRD'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

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CHECK ONE OF THE FOLLOWING:

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DATE 8/31/84
 PLANT NAME Braidwood
 UTILITY Commonwealth Edison
 O.L. DATE August 1985

OPERATING SHIFT EXPERIENCE

JOB TITLE: Nuclear Station Operator
 (NOTE 2)

NUCLEAR POWER PLANT EXPERIENCE
 FOR OPERATING SHIFT POSITIONS (NOTE 1)

ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	OPERATING SHIFT EXPERIENCE											
			Wagner	Hamilton	Gallentine	B. Smith	Royston	Yurkovich	Kropp	Coolley	Lambert	Rahrig		
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT	/	/	/	/	/	/	/	/	/	/	/	/
2. OTHER COMMERCIAL SRO	.75	NO LIMIT	/	/	/	/	/	/	/	/	/	/	/	/
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT	/	/	/	/	/	/	/	/	/	/	/	/
4. OTHER COMMERCIAL RO	.75	NO LIMIT	/	/	/	/	/	/	/	/	/	/	/	/
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EOW, PPWS) (OTHER)	.50 .25	36 MONTHS	/	9 m	/	/	3 m	/	/	21 m	/	/	/	/
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	3.5 m 3 w	3.5 m 3 w	3.5 m 3 w	3.5 m 3 w	3.5 m 3 w	3.5 m 3 w	3.5 m 3 w	3.5 m 3 w	3.5 m 3 w	3.5 m 3 w	3.5 m 3 w	3.5 m 3 w
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1/2 YEARS PRIOR TO F.L.)	.75 .50	24 MONTHS (12 MONTHS) (12 MONTHS)	4.5 m 2 m 5 m 4 m	4.5 m 6.5 m 6 m 13 m	4.5 m 2 m 6 m 4 m	4.5 m 5 m 6 m 10 m	6 m 12 m 6 m 12 m	4.5 m 7 m 6 m 14 m	2.5 m 5 m	12 m 51 m	2.5 m 5 m	2.5 m 5 m	2.5 m 5 m	2.5 m 5 m
8. LICENSED CLASSROOM TRAINING AND EXAM	.50	9 MONTHS	3 m 5 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m
9. PARTICIPATION AT OPERATING PLANT	.75	12 MONTHS	12 m 41 m	12 m 36 m	12 m 22 m	12 m 18 m	12 m 18 m	12 m 18 m	12 m 18 m	12 m 16 m	12 m 9 m	7 m 6.5 m	6 m 6 m	6 m 6 m
10. OTHER NUCLEAR PLANT EXPERIENCE	.25	12 MONTHS	/	4.5 m 18 m	/	1 m 4 m	5 m 20 m	/	7 m 29 m	/	6.5 m 26 m	6 m 24 m	/	/
11. CONDUCTING LICENSE TRAINING	.25	9 MONTHS	/	/	/	/	/	/	/	/	/	/	/	/
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)	3 m 30 sem hrs	/	/	7 m 70 sem hrs	/	/	6 m ASS	2 m 24 sem hrs	6 m ASS	/	/	/
TOTAL NUCLEAR PLANT EXPERIENCE:			28 m	43 m	25 m	36 m	20.5 m	30 m	22 m	59.5 m	28.5 m	15 m		
<u>HOT PARTICIPATION EXPERIENCE</u>														
TIME 20% PWR/BWR (WKS)														
STARTUP & SHUTDOWN (YES/NO)														
MONTHS ON SHIFT														

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

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DATE 8/31/84
 PLANT NAME Braidwood
 UTILITY Commonwealth Edison
 O.L. DATE August 1985

OPERATING SHIFT EXPERIENCE

JOB TITLE: Nuclear Station Operator
 (NOTE 2)

NUCLEAR POWER PLANT EXPERIENCE
 FOR OPERATING SHIFT POSITIONS (NOTE 1)

ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	OPERATING SHIFT EXPERIENCE											
			Braglia	Andrews	Stefan	Radomski	Vandermyde	Hess	Vanderheyden	Guintu				
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT												
2. OTHER COMMERCIAL SRO	.75	NO LIMIT												
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT												
4. OTHER COMMERCIAL RO	.75	NO LIMIT												
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EOWW, PPWS) (OTHER)	.50 .25	36 MONTHS		21 m 42 m	10.5 m 42 m									
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)		3 m 4 w	3 m 4 w			3 m 4 w						
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	.75 .50	24 MONTHS (12 MONTHS) (12 MONTHS)		12 m 34 m	12 m 38 m	4.5 m 3 m 6 m 6 m	4.5 m 3 m 8.5 m 6 m 17 m	4.5 m 7 m 6 m 14 m	4.5 m 6.5 m 6 m 13 m	4.5 m 3.5 m 6 m 7 m				
8. LICENSED CLASSROOM TRAINING AND EXAM	.50	9 MONTHS		3 m 6 m	3 m 6 m			3 m 6 m						
9. PARTICIPATION AT OPERATING PLANT	.75	12 MONTHS		11 m 15 m	12 m 36 m	3 m 4 m 3 m	3 m 22 m	12 m 48 m	12 m 29 m	12 m 20 m				
10. OTHER NUCLEAR PLANT EXPERIENCE	.25	12 MONTHS		3.5 m 14 m	9 m 36 m			3 m 13 m					1.5 m 6 m	
11. CONDUCTING LICENSE TRAINING	.25	9 MONTHS												
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)		0 m 8 sem hrs	6 m AAS									
TOTAL NUCLEAR PLANT EXPERIENCE:				14.5 m	48 m	46.5 m	13.5 m	34 m	23.5	23 m			21.5 m	
<u>HOT PARTICIPATION EXPERIENCE</u>														
TIME 20% PWR/BWR (WKS)														
STARTUP & SHUTDOWN (YES/NO)														
MONTHS ON SHIFT														

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

CHECK ONE OF THE FOLLOWING:

- a. Shift advisors must be used to satisfy the "hot participation experience" requirements of the utility plan.
- b. Shift advisors will probably be required, at least for some shifts.
- c. Do not plan to use shift advisors unless some unforeseen circumstance arises.

DATE 8/31/84
 PLANT NAME Braidwood
 UTILITY Commonwealth Edison
 O.L. DATE August 1985

NUCLEAR POWER PLANT EXPERIENCE
 FOR OPERATING SHIFT POSITIONS (NOTE 1)

OPERATING SHIFT EXPERIENCE

JOB TITLE: Equipment Operator
 (NOTE 2)

ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR							
			Carlson	Pempe	Nordland	Spangler	Scharf	D'Urazio		
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT								
2. OTHER COMMERCIAL SRO	.75	NO LIMIT								
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT								
4. OTHER COMMERCIAL RO	.75	NO LIMIT								
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EOW, PPWS) (OTHER)	.50 .25	36 MONTHS								
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	3.5 m 3 w							
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	.75 .50	24 MONTHS (12 MONTHS) (12 MONTHS)			4 m 8 m					
8. LICENSED CLASSROOM TRAINING AND EXAM	.50	9 MONTHS	3 m 6 m							
9. PARTICIPATION AT OPERATING PLANT	.75	12 MONTHS		12 m 18 m	12 m 24 m	12 m 22 m	12 m 22 m	12 m 26 m		
10. OTHER NUCLEAR PLANT EXPERIENCE	.25	12 MONTHS	3 m 14 m	2 m 8 m	1 m 5 m	3 m 13 m	3 m 13 m	2 m 8 m		
11. CONDUCTING LICENSE TRAINING	.25	9 MONTHS								
12. DEGREE (ENGINEERING, APPLIED SCIENCE EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)		6 m AS	6 m AS					
TOTAL NUCLEAR PLANT EXPERIENCE:			9.5 m	20 m	23 m	15 m	15 m	14 m		
<u>HOT PARTICIPATION EXPERIENCE</u>										
TIME 20% PWR/BWR (WKS)										
STARTUP & SHUTDOWN (YES/NO)										
MONTHS ON SHIFT										

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

CHECK ONE OF THE FOLLOWING:

- a. Shift advisors must be used to satisfy the "hot participation experience" requirements of the utility plan.
- b. Shift advisors will probably be required, at least for some shifts.
- c. Do not plan to use shift advisors at all.

DATE 8/31/84
 PLANT NAME Braidwood
 UTILITY Commonwealth Edison
 O.L. DATE August 1985

NUCLEAR POWER PLANT EXPERIENCE
 FOR OPERATING SHIFT POSITIONS (NOTE 1)

OPERATING SHIFT EXPERIENCE

JOB TITLE: Equipment Attendant
 (NOTE 2)

ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	OPERATING SHIFT EXPERIENCE															
			Holle	Mancuso	Acker	Biskie	Seeman	Schumacher	Kuzmuk									
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT																
2. OTHER COMMERCIAL SRO	.75	NO LIMIT																
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT																
4. OTHER COMMERCIAL RO	.75	NO LIMIT																
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EOW, PPWS) (OTHER)	.50 .25	36 MONTHS				24 m 48 m												
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)																
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	.75 .50	24 MONTHS (12 MONTHS) (12 MONTHS)				5 m 10 m												
8. LICENSED CLASSROOM TRAINING AND EXAM	.50	9 MONTHS																
9. PARTICIPATION AT OPERATING PLANT	.75	12 MONTHS	18 m	12 m	13 m	9 m												
10. OTHER NUCLEAR PLANT EXPERIENCE	.25	12 MONTHS	7 m	1.5 m	9 m	2 m	10 m	2.5 m	8 m	2 m	7 m	1.5 m	8 m	2 m	8 m	2 m		
11. CONDUCTING LICENSE TRAINING	.25	9 MONTHS																
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)			6 m				9 m									
TOTAL NUCLEAR PLANT EXPERIENCE:			13.5 m		17 m		31.5 m	11 m		1.5 m		2 m		2 m				
<u>HOT PARTICIPATION EXPERIENCE</u>																		
TIME 20% PWR/BWR (WKS)																		
STARTUP & SHUTDOWN (YES/NO)																		
MONTHS ON SHIFT																		

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

CHECK ONE OF THE FOLLOWING:

- a. Shift advisors must be used to satisfy the "hot participation experience" requirements of the utility plan.
- b. Shift advisors will probably be required, at least for some shifts.
- c. Do not plan to use shift advisors unless some unforeseen circumstance arises.

DATE 8/31/84
 PLANT NAME Braidwood
 UTILITY Commonwealth Edison
 O.L. DATE August 1985

OPERATING SHIFT EXPERIENCE

JOB TITLE: SROs (not on shift)
 (NOTE 2)

NUCLEAR POWER PLANT EXPERIENCE
 FOR OPERATING SHIFT POSITIONS (NOTE 1)

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR												
			Yungk	Mertogul	Lemke	Ungeran	Sanborn	Glaza	Krowzack	Paquette	O'Brien	Legrier			
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT				15 m	15 m							16 m	
2. OTHER COMMERCIAL SRO	.75	NO LIMIT												16 m	
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT													
4. OTHER COMMERCIAL RO	.75	NO LIMIT													
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EOW, PPWS) (OTHER)	.50 .25	36 MONTHS						7.5 m 15 m	30 m 17 m			3 m 6 m	21 m 10.5 m		
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	3.5 m 3 w 4 w	3.5 m 3 w 4 w	3.5 m 3 w 4 w	3.5 m 3 w 4 w	3.5 m 3 w 4 w	3.5 m 3 w	3.5 3 w	3.5 3 w	3.5 m 3 w	3.5 m 3 w	3.5 m 3 w 2 w	1.5 m 4 w	3 m 4 w
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	.75 .50	24 MONTHS (12 MONTHS) (12 MONTHS)	12 m 34 m												
8. LICENSED CLASSROOM TRAINING AND EXAM	.50	9 MONTHS	6 m 12 m	6 m 12 m	6 m 12 m	6 m 12 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m	3 m 6 m	4 m 8.5 m	3 m 6 m
9. PARTICIPATION AT OPERATING PLANT	.75	12 MONTHS													
10. OTHER NUCLEAR PLANT EXPERIENCE	.25	12 MONTHS	12 m 74 m	12 m 54 m	12 m 195 m	12 m 60 m	12 m				12 m 57 m	12 m 108 m	12 m 124 m	12 m 128 m	12 m
11. CONDUCTING LICENSE TRAINING	.25	9 MONTHS					1 m 4 m	1 m 4 m	1 m						
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)	12 m BSEE	12 m BSNE MSNE	12 m MBA BSNE	12 m BSME MSNE			6 m AS	12 m MSNE	12 m BSME	12 m MSIA BSEE	12 m MSSM	12 m	12 m
TOTAL NUCLEAR PLANT EXPERIENCE:			48.5 m	36.5 m	36.5	51.5 m	32 m	43.5 m	30.5 m	37.5 m	70 m	30 m			
<u>HOT PARTICIPATION EXPERIENCE</u>															
TIME 20% PWR/BWR (WKS)						* 42 w							**32 w		
STARTUP & SHUTDOWN (YES/NO)						yes							yes		
MONTHS ON SHIFT						15							16		

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

* This time is based on 75% availability of CECO's Zion Nuclear Station
 ** This time is based on 46% availability of CECO's Zion Nuclear Station

CHECK ONE OF THE FOLLOWING:

- a. Shift advisors must be used to satisfy the "hot participation experience" requirements of the utility plan.
- b. Shift advisors will probably be required, at least for some shifts.
- c. Do not plan to use shift advisors unless some unforeseen circumstance arises.