

MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

JAMES P. McGAUGHY, JR

October , 1983

U. S. Nuclear Regulatory Commission Region II 101 Marietta Street, N. W. Suite 2900 Atlanta, Georgia 30303

Attention: Mr. J. P. O'Reilly, Regional Administrator

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station

Unit 1
License No. NPF-13

Docket No. 50-416
Applications for Operators
and Senior Operators License

AECM-83/

Mississippi Power & Light Company notified you by letter, AECM-83/0629, dated September 30, 1983, of errors made in previously submitted applications for Operator's and Senior Reactor Operator's Licenses. This subject was also discussed with you in your Atlanta office on October 12, 1983. This letter summarizes the problems discussed and our proposed actions to resolve this matter.

MP&L performed a complete review of training records for all currently licensed Reactor Operators and Senior Reactor Operators at Grand Gulf, and identified discrepancies between the license application and the training records. A complete list of identified problems associated with each application is enclosed (Enclosure 1). The discrepancies can be categorized into three general problem areas:

- (1) Training duration (length of course) was not as long as indicated on the application. The following discrepancies were identified in this area:
 - (a) Several applications listed one week of Mitigation of Core Damage which was actually only four days long. Letter AECM-81/330, dated August 28, 1981, from MP&L to Harold Denton, committed to 80 hours of Mitigation of Core Damage. Although only thirty-two hours of documented training was given in this module, much of the material normally covered in the Mitigation of Core

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Damage Course is taught in other courses. The eight week Grand Gulf Technology or Systems Course includes modules on fuel, neutron monitoring and vessel instrumentation. Individual courses in Heat Transfer and Fluid Flow, Emergency Procedures, and Chapter 15 of the FSAR are taught in individual course and are major topics in the Mitigation of Core Damage Course. After completing the above noted courses, a major portion of the Mitigation of Core Damage Course is a repeat and can be covered in a short time span. A review was conducted of the course material and exams for this four-day course and substantiated that the material was adequately covered. No further action is deemed necessary for this discrepancy. The present course is given over a two week period.

- (b) Several applications listed a thirteen day Plant Operations Course addressing the FSAR, IOI's and EPP's and a seven day Plant Operation's Course addressing Technical Specifications which was given as a combined fifteen day course. The thirteen days specified were actually taught in ten days and the seven day course was taught in five days. The course was placed in the Training Records as a fifteen day course. The duration of these courses were adequate and the required material was covered in the shorter courses. No further action is deemed necessary for these courses.
- (c) Several applications listed a twelve day simulator refresher, but was accomplished in ten days. the dates that the training was to be accomplished was shown on the application as 11/12-11/23/82. These applications were submitted in October 1982, indicating this was scheduled training to be completed. Only ten days of training was performed. The two week simulator refresher was of adequate leigth, thus no further action is proposed on this issued.
- (d) Several applications listed a 13 day Plant Operations Course which was actually 12 days. The twelve day course adequately covered the required material thus no action for this item is deemed necessary.
- (e) One application listed a fourteen day simulator refresher training course which the records indicate was thirteen days. The course was satisfactorily completed and the application should have indicated thirteen days. No further action is deemed necessary for this item. This application also noted a one week Mitigation of Core Damage (Brunswick, CP&L), but the training records indicate 32 hours of training was received. No further action is required for this item as justified in Item (1a) above. The material covered nor the exam was reviewed as this course was at CP&L.

- (f) One application listed a one day QA Indoctrination Course which only lasted one hour. This was an error in the application as the training records clearly indicate the one hour course. This material can be satisfactorily addressed in this time frame; thus, no additional actions are deemed necessary.
- (g) Three applications listed a six week Heat Transfer and Fluid Flow Course. A three week course was entered twice in these applicants training records, and when the application was prepared, the duplicate courses were shown on the application as six weeks. The Training Records for these individuals have been corrected. The three week course adequately address this material, and no further action is deemed necessary for this item.
- (2) Documentation does not exist to substantiate certain training listed on the applications. The following discrepancies were identified in this area:
 - (a) Several applications listed a six day Reactor Physics, Core Thermo and Radcon Course. There are no records that document this course. Each of these applicants had other training in each of these subjects. Both the MP&L and NRC exams test this area. Due to these two factors, no additional training is deemed necessary to address this training.
 - (b) Several applications listed a three day Heat Transfer and Fluid Flow Course, yet documentation does not substantiate this trianing. Each of these applicants had other training which adequately addresses this material. This material is also well-covered on MP&L and NRC exams: thus, no further training is deemed necessary.
 - (c) One applicant listed a five day Mitigation of Core Damage Corse. His training records indicate he attended a total of four days but did not take the exam. This applicant will be required to review the material and pass an exam covering the course material.
 - (d) One applicant listed a twelve week Cold License Training Course/Grand Gulf Technology on three different applications. The training records indicate that he did not obtain a passing grade on week 10 of this course. Prior to his third application, he did satisfactorily complete a twenty-one week License Operator Exam Preparation Course which covered this material. No further training is deemed necessary.
 - (e) One applicant listed a seven day Plant Operations Course covering Technical Specifications and a five day Plant

AECM-83/

Operations Course covering Technical Specification on his original application in September 1981. He did not pass the exam on the seven day course and there is no record of attendance for the five day course. He did not pass his NRC exam, and submitted another application in October 1982, which eliminated the seven day and five day courses. There is no record of this applicant being trained in the Tech Specs. He will be required to review this material and satisfactorily pass an exam.

- (f) One application listed a twelve week Grand Gulf Technology Cold License Training Course. There are no records to verify week 11 or 12, and week 9 is incomplete. This same application listed a three week Heat Transfer and Fluid Flow Course, but there are no records to verify this. This training material was covered in a later twenty-one week License Operator Exam Preparation Course, which he satisfactorily completed. No further action is deemed necessary for this discrepancy.
- (g) One application listed a two week pre-simulator course, but there is no record to verify this. This applicant failed the NRC exam. Another application has been submitted for this applicant to take the NRC exam in December 1983. He has successfully passed a two and one-half week simulator refresher course since the first application. No further action is deemed necessary for this discrepancy.
- (h) Several applications listed self study retraining or reviews. This self study retraining was performed after the individuals had failed the NRC exam. These individuals had already completed all required training to take the NRC exam thus, no further training was required. This study was to meet the individuals needs. No records are maintained for this type study. This is considered satisfactory but is documented in this report due to the entry on the application.
- (i) One applicant lised several courses on his application that he was given credit for teaching rather than taking. There was no notation on the application to this fact. His training records will be updated to indicate this. Credit for teaching is considered adequate, and no further action is deemed necessary.
- (j) One application that was submitted in 1982 had several problem areas. MP&L withdrew this application at that time due to the individual's training not being complete, and he was not given a NRC exam. No further action is deemed necessary for this item.

AECM-83/

(3) For the majority of licensed personnel, Qualification Cards were not completed, or cannot be located, as required by the FSAR and as indicated on the license applications. In addition, the Qualification Cards that were completed during this time frame did not include a Practical Factors sections as required by the FSAR.

The Practical Factors Section portion of the Qual Card has been established for each licensed operator. Records of completed surveillances were reviewed and for those surveillances that had been performed by, or under the direction of a licensed operator, that operator's Qual Card was signed off as satisfactorily completing that practical factor. The Operation's Superintendent has authorized specific Senior Reactor Operators to sign off the additional practical factors. This authoriation was based on the SRO's past experience and/or exposure to the surveillance procedure. Each licensed operator is in the process of completing this practical factors section prior to full power licensing.

The Knowledge Factors portion of the Qual Card is presently being reviewed. Where documented training exists to substantiate the Knowledge Factor has been previously reviewed in other training, his Qual Card will be updated and credit taken for this previous training. Where areas exist that training cannot be substantiated, then the Knowledge Factor portion will be satisfactorily completed.

The majority of the problems noted in this report are the result of training record problems that occurred prior to and during 1981. There has been a vast improvement in the training records since that time. The NRC application form has helped to eliminate application errors. For future applications, the preparer will sign a cover sheet stating that the records have been reviewed to substantiate the training listed on the application. The Operation's Training Supervisor or Training Superintendent will independently verify the information and sign a similar statement.

The investigation and identification of these problems was performed by our Training Department. I have requested our Quality Assurance organization perform a completely independent review of these records for added assurance that every problem has been identified. This audit is in progress and should be completed during the week of October 24, 1983.

I hope that this information will resolve your concerns of this problem.

Yours truly,

J. P. O'Reilly MISSISSIPPI POWER & LIGHT COMPANY Page 6 AECM-83/

cc: Mr. J. B. Richard Mr. R. B. McGhee Mr. T. B. Conner

> Mr. Richard C. DeYoung, Director Office of Inspection & Enforcement U. S. Nuclear Regulatory Commission Washington, D.C. 20555

Mr. G. B. Taylor South Miss. Electric Power Assn. P. O. Box 1589 Hattiesburg, MS 39401

J. P. O'Reilly MISSISSIPPI POWER & LIGHT COMPANY Page 7 AECM-83/

bcc: Middle South Nuclear Activities (w/a)

- A. Zaccaria
- R. S. Trickovic
- C. D. Wood .
- J. F. Hudson, Jr.
- M. D. Archdeacon
- J. P. McGaughy, Jr.
- T. H. Cloninger
- T. E. Reaves, Jr.
- J. F. Pinco
- C. K. McCoy
- S. M. Feith
- A. R. Smith
- R. F. Phares
- A. G. Wagner
- M. D. Houston
- C. C. Hayes
- Project File
- Plant File
- File

Problems on Application

App. #1

- 1. 1 week MCD at CP&L record shows 32 hours
- 2. 14 day Simulator Refresher Training 13 day in records
- 3. Did not complete qual card but was not on application

App. #2

- 1. No documentation in records for 9 week upgrade training
- 2. Did not complete qual card but was not on application



Pirst Application Submitted

May, 1982

7. Formal Training:

6	Week	Grand Gulf Technology (GGNS)
1	Day	Radiation Worker II Course (CGNS)
1	Pay	Energency Preparedness Training (GGNS)
2	Day	HPCS Diesel Generator Course (CCNS)
14	Day	Simulator Refresher Training at Tulsa, OK
1	Weck	Mitigation Core Damage (Bronswick, CP&L)
1	Week	Analytical Trouble Shooting (CP&L)
5	Bay	Admin. Requirements Course (GGNS)
7	Pay	Plant Operations Course (GGNS)
2	Day	Fire Brigade Training (GGNS)
5	Day	RO Re-training (CP&L)
2	Day	Mitigation of Core Damage (burse (GGNs)



Second Application Submitted

Oct. 1982

7. Formal Training:

	Week	Grand Gulf Technology (GGNS) (CBE)
		Radiation Worker II Course (GGNS)
1	Day	Emergency Preparedness Training (GGNS)
2	Day	HPCS Diesel Generator Course (GGNS)
1	Week	Mitigation of Core Damage (CP&L)
1	Week	Analytical Trouble Shooting (CP&L)
	Day	Administrative Requirements Course (GGNS) (CBE)
7	Day	Flant Operations and Casualty Response Course (GGNS) (CBE)
	Day	Delaval Diesel Generator Course (GGNS)
5	Day	R.O. Re-training (CP&L)
2	Day	Fire Brigade Training (CP&L)
	Day	Simulator Refresher Training at Tulsa, OK (GE)
2	Day	Mitigation of Core Damage (GGNS) (CBE)
1	Week	Heat Transfer & Fluid Flow (CBE)
5	Day	Situational Leadership Course (GGNS)
	Week	Operator Upgrade Training (GGNS) (10/4/82 - 12/3/82)



Problems on Application

App. #1

- 1. 7 day Plant Operations Course and 13 day Plant Operations Course was actually a 15 day course
- 2. I week MCD was 4 days
- 3. 3 day Heat Transfer and Fluid Flow no record of attendance
- 4. 6 day Rx Physics, Thermo, and Radcon no record of attendance
- 5. Qual Card was not completed

App. #2

- Qual Card complete except for Practical Factors and one blank in Knowledge/Skills area
- 2. No other problems noted.



Sept. 1981

7. Formal Training:

Certified Senior Reactor Operator Dresdon Simulator (GE) 12 weeks 17 weeks of 20 week Basic Reactor Fundamentals (Memphis State Univ) 5 week Special Basic Reactor Fundamentals to complete course (Memphis State Univ) 4 week BWR Observation Training (GE) 1 week Reactor Physics and Thermodynamics (GGNS) 8 week Grand Gulf Technology (GGNS) 1 week Allis Chalmers T/G System (AC) 1 day Quality Assurance Indoctrination 's day Fire Brigade Training 12 week Grand Gulf Technology (Cold License Training Course) (GGNS) 5 day Fire Brigade Training (Texas A&M) 3 week Heat Transfer - Fluid Flow (Memphis State Univ) 24 day Allis Chalmers Turbine Operation (AC) 2 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (Admin Reg's) 13 day Plant Operations Course (FSAR, IOI's, EPP's)

1 week Mitigation of Core Damage Sept 1981

Cold License Operator Qualification Card

3 day Heat Transfer - Fluid Flow (MSU) Sept 1981 6 day Rx Physics, Core Thermo, Radcon Sept 1981



Problems on Application

- 7 day Plant Operation Course 15 days in record
 13 day Plant Operation Course
- 2. 6 day Px Physics, Core Thermo, Radcon no record of attendance
- 3. 3 day Heat Transfer and Fluid Flow no record of attendance
- 4. I week MGD only 4 days in record
- 5. Qual card completed except for Practical Factors



Application Submitted

Sept, 1981

7. Formal Training:

Certified Senior Reactor Operator Perry Simulator (GE) 13 weeks 2 week Presimulator Training (GGNS) 8 week Grand Gulf Technology (GGNS) Reactor Startup Experience Course (Memphis State Univ.) 5 day Fire Brigade Training 8 day Refresher Training for Operators Perry Simulator (GE) I day Quality Assurance Indoctrination (GGNS) 5 day Fire Brigade Training (Miss. State Fire Academy) I week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations (FSAR, IOI's, EPP's) 6 day RX Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) I week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card

- o US Navy SIW Prototype Training 1975
- o US Navy Nuclear Power School 1974
- o US Navy Electrician Mate "A" School 1972



PROBLEMS ON 1ST APPLICATION

May 1982

1. 2 week Pre-Simulator Course - no record of attendance

PROBLEMS ON ZND APPLICATION

May 1983

- 1. No problems noted
- 2. Qual card completed
- 3. Has reapplied for 12/83 exam (3rd application)



Application Submitted

Hay 1982

7. FORMAL TRAINING

Certified Reactor Operator Dresden Simulator (GE) 12 weeks 20 week Basic Reactor Fundamentals (Memphis State University) 2 week Presimulator Training (GGNS) 8 week Grand Gulf Technology (GGNS) Reactor Startup Experience Course (Memphis State University) (10 Reactor Startups) 4 week Observation Training (GE) I week Reactor Physics and Thermo Review (GGNS) I week Fire Brigade Training (Mississippi State Fire Academy) 1 week ACPSI - Turbine Generator Systems (GGNS) 1 day Quality Assurance Indoctrination (GGNS) 3 day bechtel Print Reading Course (GGMS) I day Radiation Worker Training (GCNS) 5 week Grand Gulf System Review Course (GGNS) 3 week Plant Operations Course (GGNS) 3 week Simulator Refresher Traising (GE - Perry Simulator) 1 day Emergency Preparedness Training (GGNS) 2 day Mitigation of Core Damage Coarse (GGNS)

PROBLEMS ON APPLICATION

- 12 week GGT Cold License Training no records indicating completion for weeks 9, 11, 12.
- 3 week Heat Transfer and Fluid Flow no record indicating attendance
- 3. Did not complete qual card

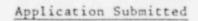
Application Submitted

May 1982

7. FORMAL TRAINING

Certified Reactor Operator Dresden Simulator (GE) 12 weeks 20 week Basic Reactor Fundamentals (Memphis State Univ) 7 week Power Principles and Systems Familiarization (GGNS) 7 week Reactor Fundamentals Review and Grand Gulf Systems (GGNS) 5 week Dresden Technology (GGNS) 5 week Simulator Retraining (GGNS) 4 week BWR Observation Training (GE) 1 week Reactor Physics and Thermodynamics (GGNS) 8 week Grand Gulf Technology (GGNS) 1 week Allis Chalmers T/G System (AC) I day Quality Assurance Indoctrination (GGNS) 12 Week Grand Gulf Technology (Cold License Training Course) l week Fire Brigade Training (Texas A&M) 3 week Heat Transfer - Fluid Flow (Memphis State Univ) 3 day Blue Print Reading (GGNS) 2 day Donkey Boiler Training (GCNS) 1 day Radiation Worker Training (GGNS) 1 day Emergency Preparedness Training (GGNS) 2 day HPCS Diesel Training (GGNS) 1 day Gantry Crane Operator Training (GGNS) 5 week Grand Gulf Systems Review (GGNS) 3 week Plant Operations Course (GGNS) 3 week Simulator Refresher Training (GE - Perry Simulator) 1 week Memphis State Reactor Startup - (10 Reactor Startups 3 week Reactor Physics, Thermal Hydraulic and Heat Transfer Review (GGNS)

2 day Mitigation of Core Damage Course (GGNS)



May 1982

7. FORMAL TRAINING

Certified Reactor Operator Perry Simulator (13 weeks) (GE) May 30, 1982 7 day Boiling Water Reactor Introduction (GGNS) 14 week Assistant Operator Systems Training (GGNS) 3 week Heat Transfer & Fluid Flow I - (GGNS) 1 day Donkey Boiler Training (GGNS) 3 week Presimulator Training (GGNS) 1 day General Employee Training/Radworker I (GGNS) I day Quality Assurance Indoctrination (GGNS) 7 day Plant Operations Course (GGNS) (TECH SPECS) I week Fire Brigade Training (Mississippi State Fire Academy) 1 week Administrative Requirements Course (GGNS) 2 week Plant Operations Course (Procedures) (GGNS) 1 day Radiation Worker II Course (GGNS) 4 week Observation Training (Vermont Yankee) 1 day Emergency Preparedness Training (GGNS) 5 day Reactor Startup - Experience Training (Memphis State University) (10 Startups) 5 week Grand Gulf System Review Course (GGNS) 3 week Reactor Physics, Thermal Hydraulics & Heat Transfer Review (GGNS) 2 week Administrative Requirements Course (GGNS) (Procedures) 3 week Simulator Refresher Training Perry Simulator (GE)

2 day Mitigation of Core Damage Course (GGNS)

PROBLEMS ON 1ST APPLICATION

May 1982

- 1. Certified RO Perry Simulator did not certify, did not take NRC exam because training was incomplete
- 2. 3 week HT & FF records show " incomplete"
- 3. 5 day Rx Startup experience actually only 3 days and had only 6 startups
- 4. 5 week GG Systems Review 5 week GG Systems Review
 3 week Rx Physics, Thermo & Heat Transfer } did not complete
 2 week Admin Requirements

2 week Admin Requirements

2 day MCD

NOTE: was not allowed to take exam due to not completing required training.

PROBLEMS ON 2ND APPLICATION

December 1983

- 1. Reapplication for December 1983 exam
- 2. No problems identified

Application Submitted

Oct, 1982

7. Formal Training:

14	Week	Reactor Operator Certification on Perry Simulator (GE)
7	Week	Grand Gulf Technology (GGNS)
13	Week	Assistant Operator Fundamentals Training (GGNS)
7	Week	N.O.B. Systems Course (GGNS)
1	Week	Fire Brigade Training (Mississippi State Fire Academy)
2	Week	Pre-Simulator Training (GGNS)
1	Week	Reactor Startup Experience (10 Startups) (Memphis State
		University)
2	Day	Donkey Boiler Training (GGNS)
	Day	Fire Brigade Training (GGNS)
	Day	Quality Assurance Indoctrination (GGNS)
1	Day	Gantry Crane Operator Training (GGNS)
	Day	Emergency Preparedness Training (GGNS)
	Day	Delaval Diesel Generator Course (GGNS)
	Week	Operator Practices Training (GGNS)
1	Week	
12	Day	Simulator Refresher Training at Tulsa, OK (G.E.)
		(11/12-11/23/82) June 6 through September 3, 1987
		On-Shift Training
2	Week	Operational Theory Review (GGNS)
	Week	Mitigation of Core Damage (GGNS)
	Week	

PROBLEMS ON 1ST APPLICATION

- 12 day Simulator Refresher was actually 10 days accomplished between 11/12/82 and 11/23/82.
- 2. No documentation in records for 5 week self study.

PROBLEMS ON 1ST APPLICATION

September 1981

- 1. 6 day Rx Physics, Core Thermo, Radcon no record of attendance
- 2. 7 day POC (Tech Spec) failed final, no evidence of makeup
- 3. 5 day Plant Operation Course (Tech Specs) no evidence of taking course in records.
- 4. Completed qual card but did not have practical factors

PROBLEMS ON 2ND APPLICATION

October 1982

- 1. Same as items 1 on 1st application
- 2. 6 week HT & FF was actually a 3 week course
- 3. Completed qual card but did not have practical factors
- 4. No entry in records for 5 weeks self study



1st Application Submitted

Sept. 1, 1981

7. FORMAL TRAINING

Certified Senior Reactor Operator Dresden Simulator (GE) 12 20 week Basic Reactor Fundamentals (Memphis State Univ) 7 week Power Principles and Systems Familiarization (GGNS) 7 week Reactor Fundamentals, Review and Grand Gulf Systems (GGNS) 5 week Dresden Technology (GGNS) 5 week Simulator Retraining (GE) 4 week BWR Observation Training (GE) I week Reactor Physics and Thermodynamics (GGNS) 8 week Grand Gulf Technology (GGNS) 1 week Allis Chalmers T/G System (AC) I day Quality Assurance Indoctrination (GGNS) 12 week Grand Gulf Technology (Cold License Training Course) (GGNS) I week Fire Brigade Training (Texas A&M) 3 week Heat Transfer - Fluid FLow (Memphis State Univ) 3 day Blue Print Reading (GGNS) 2 1/2 day Allis Chalmer Turbine Operations (AC) 7 day Plant Operations Course (Tech Specs) (GGNS) 2 week Refresher Training Perry Simulator 5 day Plant Operations Course (Tech Specs) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) I week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card



2nd Application Submitted

October 1982

7. FORMAL TRAINING

12 week Senior Reactor Operator Certification on Dresden Simulator (GE) 20 week Basic Reactor Fundamentals (Memphis State Univ) 7 week Power Principles and System Familiarization (GGNS) 7 week Reactor Fundamentals, Review and Grand Gulf Systems (GGNS) 5 week Dresden Technology (GGNS) 5 week Simulator Retraining (GGNS) 4 week Observation Training (GE) l week Reactor Physics and Thermodynamics (GGNS) 8 week Grand Gulf Technology (GGNS) 1 week ACPSI - Turbine Generator Systems (AC-GGNS) 12 week Cold License Training Course (GGNS) I week Fire Brigade Training (Texas A&M) 6 week Heat Transfer - Fluid FLow (Memphis State Univ) 12 day Simulator Refresher Training at Tulsa, OK (G.E.) I week Administrative requirements Course (GGNS) I week Mitigation of Core Damage (GP-GGNS) 12 day Plant Operation Course (GGNS) 6 day Reactor Physics, Core Thermohydraulics, Radcon (GGNS) 2 day HPCS Diesel Generator Course (GGNS) 2 day Delaval Diesel Generator Course (GGNS) 3 day Blue Print Reading (GGNS) 2 week Operational Theory Review (GGNS) I week Mitigation of Core Damage (GGNS) 5 week Supervised Self Study and Practice Walkthroughs (GGNS) (9/27/82 - 10/29)

PROBLEMS ON APPLICATION

- 1. 7 day POC and 13 day POC was actually 15 days
- 2. 6 day Rx Physics, Core Thermo, Radcon no record of attendance
- 3. 3 day HT & FF no record of attendance
- 4. I week MCD actually 4 days
- 5. Qual card no practical factors - one signature missing on knowledge skills area of qual card

Application Submitted

Sept. 1, 1981

7. FORMAL TRAINING

Certified Reactor Operator Dresden Simulator (GE) 12 weeks 20 week Basic Reactor Fundamentals (Memphis State Univ) + 10 startups 7 week Power Principles and Systems Familiarization (GGNS) 7 week Reactor Fundamentals and Grand Gulf System (GGNS) 5 week Dresden Technology (GGNS) 4 week BWR Observation Training (GE) 1 week Reactor Physics and Thermodynamics (GGNS) 8 week Grand Gulf Technology (GGNS) 1 week Allis Chalmers T/G System (AC) 1 day Quality Assurance Indoctrination 1/2 day Fire Brigade Training 12 week Grand Gulf Technology (Cold License Training Course) (GGNS) 3 week Heat Transfer - Fluid Flow (Memphis State Univ) I week Fire Brigade Training 2 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (ISU) 1 week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card



PROBLEMS ON 1ST APPLICATION

September 1981

- 1. 7 day POC and 13 day POC was actually a 15 day course
- 2. 6 day Rx Physics, Core Thermo, Radcon no record of attendance
- 3. 3 day HT & FF no record of attendance
- 4. Partial qual card only

PROBLEMS ON 2ND APPLICATION

May 1982

1. Same problems as on original application 1 thru 3

PROBLEMS ON 3RD APPLICATION

October 1982

- 1. 6 weeks HT & FF was actually only 3 weeks
- 2. No documentation in records for 9 week review.



1st Application Submitted

Sept. 1, 1981

7. FORMAL ...AINING

Certified Reactor Operation Dresden Simulator (GE) 12 weeks 20 week Basic Reactor Fundamentals (Memphis State Univ) 5 week Power Principles and Systems Familiarization (GGNS) 5 week Dresden Technology (GGNS) 4 week BWR Observation Training (GE) l week Reactor Physics and Thermodynamics (GGNS) 8 week Grand Gulf Technology (GGNS) 12 week Grand Gulf Technology (Cold License Training Course) 1 day Quality Assurance Indoctrination (GGNS) 4 day Bechtel Reading (GGNS) 1/2 day Fire Brigade Training (GGNS) 3 week Heat Transfer - Fluid Flow (Memphis State Univ) 1 week Fire Brigade Training (GGNS) 2 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (Admin's Req's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) 1 week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card



2nd Application Submitted

May 1982

7. FORMAL TRAINING

Certified Reactor Operation Dresden Simulator (GE) 12 weeks 20 week Basic Reactor Fundamentals (Memphis State Univ) (10 Reactor Startups) 5 week Power Principles and Systems Familiarization (GGNS) 5 week Dresden Technology (GGNS) 4 week BWR Observation Training (GE) l week Reactor Physics and Thermodynamics (GGNS) 8 week Grand Gulf Technology (GGNS) 12 week Grand Gulf Technology (Cold License Training Course) (GGNS) I day Quality Assurance Indoctrination (GGNS) 4 day Bechtel Reading (GGNS) 1/2 day Fire Brigade Training (GGNS) 3 week Heat Transfer - Fluid Flow (Memphis State Univ) I week Fire Brigade Training (GGNS) 2 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) 1 week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card 5 week Grand Gulf Systems Review (GGNS) 3 week Reactor Physics, Thermal Hydraulics and Heat Transfer Review (GGNS) 2 week Administrative Requirements Course (Procedures) (GGNS) 2 week Simulator Refresher Training Perry Simulator (GE)



3rd Application Submitted

October 1982

7. FORMAL TRAINING

12 week Reactor Operation Certification on Dresden Simulator 20 week Basic Reactor Fundamentals (Memphis State Univ) 5 week Power Plant Principles and System Familiarization (GGNS) 5 week Dresden Technology (GGNS) 4 week Observation Training (GE) 1 week Reactor Physics and Thermodynamics (GGNS) 8 week Grand Gulf Technology (GGNS) 12 week Cold License Training (GGNS) 6 week Heat Transfer - Fluid Flow (Memphis State Univ) I week Fire Brigade Training (Mississippi State Fire Academy) 12 day Simulator Refresher Training at Tulsa, OK (GE) 6 day Administrative Requirements Course (GGNS) 15 day Plant Operations Course (GGNS) 5 day Mitigation of Core Damage (GGNS) 21 week License Operator Exam Preparation Course (GGNS) 2 day HPCS Diesel Generator Course (GGNS) 2 day Delaval Diesel Generator Course (GGNS) 3 day Fire Brigade Taining (GGNS) 4 day Bechtel Print Reading (GGNS) I day Quality Assurance Indoctrination (GGNS) 9 week Operator Upgrade Training (GGNS) (10/4/82 - 12/3/82)

PROBLEMS ON APPLICATION

- 1. 13 day POC was actually 12
- 2. 6 day Rx Physics, Core Thermo, Radcon no record of attendance
- 3. 3 day HT & FF no record of attendance
- 4. Partially completed qual card in records

7. FORMAL TRAINING

Certified Senior Reactor Operator Dresden Simulator (GE) 12 weeks 8 week Grand Gulf Technology (GGNS) l week Allis Chalmers T/G System (AC) 12 week Grand Gulf Technology (Cold License Training Course) (GGNS) I day Quality Assurance Indoctrination (GGNS) 5 day Fire Brigade Training (Texas A&M) I day Fire Brigade Training (GGNS) 3 week Heat Transfer - Fluid Flow (Memphis State Univ) 2 1/2 day Allis Chalmers Turbine Operations (AC) 7 day Plant Operations Course (Tech Specs) (GGNS) 2 week Refresher Training Perry Simulator 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) I week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card

US Navy Slw Prototype Training 1975
US Navy Nuclear Power School 1974
US Navy Electronics Technician "A" School 1973

PROBLEMS ON APPLICATION

- 1. 12 day Simulator Refresher Training at Tulsa was actually a 10 day course
- 2. No qual card

Application Submitted

October 1982

7. FORMAL TRAINING

7 day BWR Introduction (GGNS) 13 week Assistant Operator Fundamentals Training (GGNS) 3 day Fire Brigade Training (GGNS) 7 week NOB Systems Course (GGNS) 1 day Donkey Boiler Training (GGNS) 1 day Quality Assurance Indoctrination (GGNS) 5 day Fire Brigade Training (M.S. Fire Academy) 2 Pre-Simulator Training (GGNS) 1 day Gantry Crane Operator Training (GGNS) 14 Week Reactor Operator Certification at Perry Simulator (GE) 7 week Grand Gulf Technology (GGNS) 2 day Delaval Diesel Generator (GGNS) 2 week Operator Practices Training 5 day Reactor Startup Experience (MSU) 12 day Simulator Refresher Training at Tulsa, OK (GE) (11/12-11/23/82) June 6 through September 3, 1982 On-Shift Training 2 week Operational Theory Review (GGNS) I week Mitigation of Core Damage (GGNS) 5 week Supervised Self Study and Practice Walkthroughs (GGNS) (9/27/82 - 10/29/82)

Problems on Application

- 1. 7 day Plant Operations Course (Tech Specs) and 13 day Plant Operations Course (FSAR, IOI's, EPP's) was actually a 15 day course
- 2. 6 day Rx Physics, Core Thermo, Radcon no record of attendance
- 3. 3 day Heat Transfer and Fluid Flow no record of attendance
- 4. Qual Card complete except Practical Factors.

Sept, 1981

7. Formal Training:

Certified Reactor Operator Dresden Simulator (GE) 12 weeks 20 week Basic Reactor Fundamentals (Memphis State Univ) 5 week Power Principles and Systems Familiarization (GGNS) 5 week Dresden Technology (GGNS) 4 week BWR Observation Training (GE) I week Reactor Physics and Thermodynamics (GGNS) 8 week Grand Gulf Technology (GGNS) 1 week Allis Chalmers T/G System (AC) I day Quality Assurance Indoctrination 12 week Grand Gulf Technology (Cold License Training) 1 day Fire Brigade Training I week Fire Brigade Training 3 week Heat Transfer - Fluid Flow (Memphis State Univ) 2½ day Allis Chalmer Turbine Operations (AC) 2 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) I week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card



- 1. 13 day POC was actually 12 days
- 2. 6 day Rx physics, Core Thermo, Radcon No record of attendance
- 3. I wk MCD actually 4 days
- 4. No qual card



Application submitted

Sept. 3, 1981

7. Formal Training:

Certified Senior Reactor Operator Perry Simulator (GE) 13 weeks 8 week Grand Gulf Technology (GGNS) 24 day Allis Chalmers Turbine Operations (AC) 8 day Refresher Training for Operations Perry Simulator (GE) I week Fire Brigade Training (GGNS) 2 day Fire Brigade Training (GGNS) 2 week Presimulator Training (GGNS) I day Quality Assurance Indoctrination (CGNS) 7 day Plant Operations Course (Tech Specs) 'I week Refresher Training Perry Simulator 5 day Plant Operations Course (Admin Reg's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) I week Mitigation of Core Danage (GP) Sept 1981 Cold License Operator Qualification Card

- o US Navy SIW Prototype Training 1977
- o US Navy Nuclear Power School 1976



App. #1

- 1. 7 day Plant Operations Course and 13 day Plant Operations Course was actually a 15 day course
- 2. 6 day Rx Physics Themso, Radcon no record of attendance
- 3. Did not complete qual card
- 4. Failed week 10 of 12 week Cold License Training Program no evidence of makeup exam.

App. #2

1. Repeat of same problems 1. through 4. on original application

App. 43

- 1. 6 week HT and FF was actually 3 weeks
- 2. We documentation in records for 5 wask upgrade training



First Application Submitted

Sept, 1981

7. Formal Training:

Certified Reactor Operator Dresden Simulator (GE) 12 weeks 20 week Basic Reactor Fundamentals (Memphis State Univ) 5 week Power Principles and Systems Familiarization (GGNS) 5 week Dresden Technology (GGNS) 4 week BWR Observation Training (GE) I week Reactor Physics and Thermodynamics (GGNS) 8 week Grand Gulf Technology (GGNS) 1 week Allis Chalmers T/G System (AC) 1 day Quality Assurance Indoctrination (GGNS) 5 day Fire Brigade Training (Texas A&M) 12 week Grand Gulf Technology (Cold License Training Course) (GCNS) 3 week Heat Transfer - Fluid Flow (Memphis State Univ) 3 day Fire Brigade Training (GGNS) 2 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) I week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card



Second Application Submitted

May, 1982

7. Formal Training:

2 Week

Certified Reactor Operator Dresden Simulator (CE) 12 weeks 20 Weeks Basic Reactor Fundamentals (Memohis State Univ) (10 Reactor Startups) Power Principles and Systems Familiarization (GGNS) 5 Week Dresden Technology (GGNS) 5 Week BWR Observation Training (GE) 4 Week Reactor Physics and Thermodynamics (GGNS) 1 Week Grand Gulf Technology (GGNS) 8 Week Allis Chalmers T/G System (AC) 1 Week Quality Assurance Indoctrination (GGNS) 1 Day Fire Brigade Training (Texas A&M) 5 Day Grand Gulf Technology (Cold License Training Course (GGNS) 12 Week Reat Transfer - Fluid Flow (Memphis State Univ) 3 Week Fire Brigade Training (GGNS) 3 Day Refresher Training Perry Simulator 2 Week Plant Operations Course (Tech Specs) 7 Day Plant Operations Course (Admin Reg's) 5 Day Plant Operations Course (FSAR, IOI's, EPP's) 13 Day Rx Physics, Core Thermo, Radcon 6 Day Heat Transfer - Fluid Flow (MSU) 3 Day Mitigation of Core Damage (GP) Sept. 1981 1 Week Cold License Operator Qualification Card Grand Gulf Systems Review (GCNS) 5 Week Reactor Physics and Thermal Hydraulic Review (CGNS) 3 Week Administrative Procedure and Plant Operating Procedure 2 Week Review (GGNS) Simulator Refresher Training Perry Simulator (GE)



Third Application Submitted

Oct, 1982

7. Formal Training:

		Reactor Operator Certification at Dresden Simulator (GE)
	Week	Reactor Operator Certification (Monthly Crarto Univ.) (10 Reactor
20	Week	Basic Reactor Fundamentals (Memphis State Univ.) (10 Reactor
	Startu	ips - (coug)
5	Week	Power Plant Principles and System Familiarization (GGNS)
5	Week	Dresden Technology (GGNS)
4	Week	BWR Observation Training (GE)
1	Week	Reactor Physics and Thermodynamics (GGNS)
8	Week	Grand Gulf Technology (GGNS)
1	Week	ACPSI Turbine Generator Systems (AC-GGNS)
12	Week	Cold License Training Course (GGNS)
6	Week	Heat Transfer and Fluid Flow (Memphis State Univ.)
21	Week	License Operator Exam Preparation Course (GGNS)
5	Day	Fire Erigade Training (Texas A&M)
1	Day	Quality Assurance Indoctrination (CGNS)
3	Day	Fire Brigade Training (GGNS)
	Day	Simulator Refresher Training at Tulsa, OK (GE)
3	Day	Heat Transfer and Fluid Flow (Memphis State Univ.)
5	Day	Mitigation of Core Damage (GP-GGNS)
2	Day	RPCS Diesel Generator (GGNS)
	Day	Delaval Diesel Generator (GGNS)
	Week	Operator Upgrade Training (GGNS) (11/1/82 - 12/3/82)



- 1. 1 day Q. A. Indoctrination actually a 1 hour course
- 2. 13 day Plant Operations Course (FSAR, IOI, EPP) actually 12 days in records
- 3. No qual card

Sept, 1981

7. Formal Training:

Certified Senior Reactor Operator Perry Simulator (GE) 13 weeks
8 week Grand Gulf Technology (GGNS)
2 week Presimulator Training Course (GGNS)
1 week Fire Brigade Training (GGNS)
1 day Fire Brigade Training (GGNS)
1 day Quality Assurance Indoctrination
7 day Plant Operations Course (Tech Specs)
1 week Refresher Training Perry Simulator
5 day Plant Operations Course (Admin Req's)
13 day Plant Operations Course (FSAR, IOI's, EPP's)
6 day Rx Physics, Core Thermo, Radcon
3 day Heat Transfer - Fluid Flow (MSU)
1 week Mitigation of Core Damage (GP) Sept 1981
Cold License Operator Qualification Card

- o US Navy S5G Prototype Training 1968 o US Navy Nuclear Power School 1968
- o US Navy Electronics Technician "A" School 1967
- o US Navy Nuclear Power Instructor School 1975
- o US S8G Reactor Plant Design Course 1978

PROBLEMS ON APPLICATION

- 1. 13 day Plant Operation Course was actually a 12 day course
- 2. 1 week MCD was actually a 4 day course
- 3. Practical Factors section not completed on Qual Card

Application Submitted

Sept. 1, 1981

7. FORMAL TRAINING

Certified Reactor Operator Dresden Simulator (GE) 12 weeks 20 week Basic Reactor Fundamentals (Memphis State Univ) 7 week Power Principles and System Familiarization (GGNS) 7 week Reactor Fundamentals Review and Grand Gulf Systems (GGNS) 5 week Dresden Technology (GGNS) 4 week BWR Observation Training (GE) 1 week Reactor Physics and Thermodynamics (GGNS) 8 week Grand Gulf Technology (GGNS) 1 week Allis Chalmers T/G System (AC) I day Quality Assurance Indoctrination 12 week Grand Gulf Technology (Cold License Training Course) (GGNS) 3 week Heat Transfer - Fluid Flow (Memphis State Univ) 2 1/2 day Allis Chalmers Turbine Operation (AC) 1/2 day Fire Brigade Training (GGNS) 7 day Plant Operations Course (GGNS) (Admin. Req's) 2 week Refresher Training Perry Simulator 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) I week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card

PROBLEMS ON 1ST APPLICATION

September 1981

- 1. 7 day POC and 13 day POC was actually a 15 day course
- 2. 6 day Rx Physics, Core Thermo, Radcon no record of attendance
- 3. 3 day HT & FF no record of attendance
- Practical factors pertion of qual card not completed 1 signature missing from knowledge/skills area of qual card.

PROBLEMS ON 2ND APPLICATION

August 1983

- 1. No documentation in records for 3 weeks review.
- 2. No other problems identified.



Applications Submitted

Sept. 1, 1981

7. FORMAL TRAINING

Certified Senior Reactor Operation Dresden Simulator (GE) 12 weeks 20 week Basic Reactor Fundamentals (Memphis State Univ) 7 week Power Principles and Systems Familiarization Course (GGNS) 7 week Reactor Fundamentals Review and Grand Gulf Technology (GGNS) 5 week Dresden Technology (GGNS) 4 week BWR Observation Training Course (GE) (GGNS) I week Reactor Physics and Thermodynamics (GGNS) 7 week Grand Gulf Technology (GGNS) 1 week Allis Chalmers T/G System (AC) I day Quality Assurance Indoctrination (GGNS) 12 week Grand Gulf Technology (Cold License Training Course) (GGNS) 5 day Brigade Training (Texas A&M) 3 week Heat Transfer - Fluid FLow (Memphis State Univ) 2 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) (GGNS) 5 day Plant Opeations Course (Tech Specs) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) I week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card



App. #1

 12 day Simulator Refresher at Tulsa, OK (GE) - actually 10 days in records

App. #2

No problems found

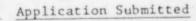
Application Submitted

Oct, 1982

7. Formal Training:

Quality Assurance Indoctrination (GGNS) 1 Day BWR Introduction (GGNS) 7 Day Assistant Operator Fundamentals (GGNS) 13 Week Fire Brigade Training (GGNS) 2 Day NOB Systems Course (GGNS) 7 Week Donkey Boiler Training (GGNS) 2 Day Fire Brigade Training (M.S. Fire Academy) 5 Day 2 Week Pre-Simulator Training (GGNS) Gantry Crane Operator Training (GGNS) 1 Day Grand Gulf Technology (GGNS) 7 Week Delaval Diesel Generator (GGNS) 2 Day Operator Practices Training (GGNS) 2 Week Reactor Startup Experience (M.S.U.) 5 Day Emergency Preparedness Training (GGNS) 1 Day Reactor Operator Certification at Tulsa, OK (G.E.) 14 Week Simulator Refresher Training at Tulsa, OK (G.E.) 12 Day (11/12-11/23/82) June 25 through September 4, 1982 On-Shift Training (GGNS) 45 Day 2 Week Operational Theory Review (GGNS) 1 Week Mitigation of Core Damage (GGNS) Supervised Self Study and Practice Walkthroughs (GGNS) 5 Week 9/27/82 - 10/29/82)

- 1. 7 Day Plant Operation Course (Tech Spec)
 13 Day Plant Operation Course (FSAR, IOI, EPP) actually 15 days one course
- 2. 1 week MCD course (GP) Sept. 1981 never completed
- 3. 3 day Heat Transfer and Fluid Flow no record of attendance
- 4. Cold License Qual Card Did not complete



Sept, 1981

7. Formal Training:

Certified Senior Reactor Operation Dresden Simulator (GE) 12 weeks 7 day BWR Introduction (GGNS) 14 week Assistant Operator Systems Training (GGNS) 2 week Presimulator Reactor Physics (GGNS) 12 week Grand Gulf Technology (Cold License Training Course) (GGNS) 3 week Heat Transfer - Fluid Flow Course (Memphis State Univ) 1 week Fire Brigade Training Reactor Startup Experience Course (Memphis State Univ) 1 day Quality Assurance Indoctrination 2 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) 1 week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card

PROBLEMS ON APPLICATION

- 1. 7 day POC and 13 day POC was actually 15 day course
- 2. 6 day Rx Physics, Core Thermo, Radcon no record of attendance
- 3. 3 day HT & FF no record of attendance
- 4. No qual card

7. FORMAL TRAINING

Certified Senior Reactor Operator Dresden Simulator (GE) 12 20 week Basic Reactor Fundamentals (Memphis State Univ) 10 criticals 4 week Observation Training Course (GE) 5 week Dresden Technology Course (GE) I day Quality Assurance Indoctrination (GGNS) 5 week Grand Gulf Technology Course (GE) 5 week Station Nuclear Engineering Course (GE) l day Indoctrination on Procurement of Material (GGNS) I week Allis Chalmers T/G System Course (AC) 5 day Fire Brigade Training Course (Texas A&M) 12 week Grand Gulf Technology (Cold License Training Course) (GGNS) 2 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) 1 week Mitigation of Core Damage (GP) September 1981 Cold License Operator Qualification Card

Sept. 3, 1981

7. FORMAL TRAINING

Certified Senior Reactor Operator Dresden Simulator (GE) 12 Week Grand Gulf Technology Course (Cold License Training) 1/2 day Fire Brigade Training (GGNS) 4 week BWR Observation Course (GE) I week Allis Chalmers Turbine Course (AC) 5 week Station Nuclear Engineer Course (GE) 5 week Grand Gulf Technology Course (GE) Quality Assurance Indoctrination (GGNS) 5 week Dresden Technology Course (G) 20 week Basic Reactor Fundamentals (Memphis State Univ) 5 month Introduction to Nuclear Power (NUS) 2 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations Course (FSAR, IOI's EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) 1 week Mitigation of Core Damage (GP) September 1981 Cold License Operator Qualification Card

PROBLEMS ON APPLICATION

- 1. 7 day POC and 13 day POC was actually a 15 day course
- 2. 6 day Rx Physics, Core Thermo, Radcon No record of attendance
- 3. No qual card.

PROBLEMS ON APPLICATION

- 1. 7 day POC and 13 day POC actually 15 days
- 2. 6 day Rx Physics, Core Thermo, Radcon no record of attendance
- 3. 3 day Heat Transfer and Fluid Flow no record of attendance
- 4. No qual card

7. FORMAL TRAINING

Certified Senior Reactor Operator Perry Simulator (GE) 13 8 week Grand Gulf Technology Course (GGNS) 7 day BWR Introduction (GGNS) 5 day Fire Brigade Training (Texas A&M) Quality Assurance Indoctrination (GGNS) 14 week Assistant Operator System Course (GGNS) 1/2 day Fire Brigade Training (GGNS) 3 day Blue Print Reading Course (GGNS) 1 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) 1 week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card US Navy SIC Prototype Training 1962 US Navy Nuclear Power School 1962 US Navy Electronics Technician "A" School 1960 US Navy Electronics Technician "B" School 1960

- * 1. 7 day POC and 13 day POC was actually a 15 day course
- * 2. 5 day POC on Tech Specs
 - 3. 6 day Rx physics core thermo and Radcon no record of attendance
 - 4. No qual card
 - * Shelly did not formally sit for these courses. As an operations instructor he participated in teaching these courses this should have been noted on the application.

Application Submitted

Sept, 1981

7. Formal Training:

Certified Senior Reactor Operator Perry Simulator (GE) 13 weeks

2 week Presimulator Training Course (GGNS)

1 week Fire Brigade Training

3 day Blue Print Reading

1 day Quality Assurance Indoctrination

1 week Refresher Training Perry Simulator

7 day Plant Operations Course (Tech Specs)

5 day Plant Operations Course (Admin Req's)

13 day Plant Operations Course (FSAR, IOI's, EPP's)

6 day Rx Physics, Core Thermo, Radcon

3 day Heat Transfer - Fluid Flow (MSU)

1 week Mitigation of Core Damage (GP) Sept 1981

Cold License Operator Qualification Card

US Navy DIG Prototype Training 1973

US Navy Nuclear Power School 1973

US Navy Electronics Technician "A" School 1972



1st Application

- 1. 7 day POC and 13 day POC was actually a 15 day course
- 2. 6 day Rx physics, core thermo and radcon no record of attendance
- 3. No qual card

2nd Application

- 1. No documentation in records for 4 week upgrade training
- 2. Did not complete qual card but was not on application



First Application Submitted

Sept, 1981

7. Formal Training:

Certified Senior Reactor Operator Perry Simulator (GE) 13 weeks 8 week Grand Gulf Technology Course (GGNS) Met.phis State University Reactor Startup Experience Course (10 Reactor Startups) 8 day Refresher Training Course Perry Simulator (GE) 2 week Presimulator Training Course (GGNS) Quality Assurance Indoctrination (GGNS) 7 day Plant Operations Course (Tech Specs) · 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) 1 week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card US Navy S3G Prototype Training 1973 US Navy Nuclear Power School 1972 US Navy Machinist Mate "A" School 1972



Second Application Submitted

Oct, 1982

7. Formal Training:

13	Week	Senior Reactor Operator Certification at Perry Simulator (GE)
8	Week	Grand Gulf Technology (GGNS)
1	Week	Reactor Startup Experience (Memphis State Univ.)
8	Day	Simulator Refresher Training at Tulsa, OK (GE)
2	Week	Pre-Simulator Training (GGNS)
1	Day	Quality Assurance Indoctrination (GGNS)
5	Day	Fire Brigade Training (Mississippi State Fire Academy)
6	Day	Administrative Requirement Course (GGNS)
3	Day	Heat Transfer & Fluid Flow (Memphis State Univ.)
15	Day	Plant Operations Course (GGNS)
5	Day	Mitigation of Core Damage (GP-GGNS)
9	Day	Supervisory Training Program (GGNS)
2	Day	HPCS Diesel Generator Training (GGNS)
2	Day	Delaval Generator Training (GGNS)

UPGRADE TRAINING:

Supervised study for four (4) week period in: Reactor Physics, Theory of Power Plant Operation; Heat Transfer & Fluid Flows, Core Thermal Hydraulic; Plant Systems including design, control and instrumentation; Administrative Procedures, Normal and Abnormal Operating Procedures including Technical Specifications.



App. #1

- 7 day Plant Operations Course and 13 day Plant Operation Course was actually a 15 day course
- 2. 6 day Rx Physics, Core Thermo, Radcon no record of attendance
- 3. 3 day Heat Transfer and Fluid Flow no record of attendance
- 4. Qual Card not completed at time of application

App. #2

- 1. Similar problems to 1st application 1, 2, 3
- 2. Qual card completed except for practical factors
- 3. No documentation in records for 10 week retraining



First Application Submitted

Sept, 1981

7. Formal Training:

Certified Senior Reactor Operator Perry Simulator 13 weeks Completed Memphis State University Reactor Startup Experience Course (10 Reactor Startups) Completed 8 week Grand Gulf Technology Course Fire Brigade Training (4/1/81) Allis Chalmers Turbine Operations Course (2.5 days) (4/15/81) GGNS Quality Assurance Indoctrination (6/4/81) 1 week Refresher Training Perry Simulator 7 day Plant Operations Course (Tech Specs) 5 day Plant Operations Course (Admin Req's) 13 day Plant Operations Course (FSAR, IOI's, EPP's) 6 day Rx Physics, Core Thermo, Radcon 3 day Heat Transfer - Fluid Flow (MSU) I week Mitigation of Core Damage (GP) Sept 1981 Cold License Operator Qualification Card US Navy S1C Prototype Training 1974 US Navy Nuclear Power School 1973 US Navy Machinist Mate "A" School 1973



Second Application Submitted

May, 1982

7. Formal Training:

Certified Senior Reactor Operator Perry Simulator 13 weeks Completed Memphis State University Reactor Startup Experience Course (10 Reactor Startups) Completed 8 week Grand Gulf Technology Course Fire Brigade Training (4/1/81) Allis Chalmers Turbine Operations Course (2.5 days) (4/15/81) GCNS Quality Assurance Indoctrination (6/4/81) 1 Week Refresher Training Perry Simulator 7 Day Plant Operations Course (Tech Specs) 5 Day Plant Operations Course (Admin Req's) 13 Day Plant Operations Course (FSAR; TOI's, EPP's) Rx Physics, Core Thermo, Radcon 3 Day heat Transfer - Fluid Flow (MSU) I Week Mitigation of Core Damage (GP) Sept. 1981 Cold License Operator Qualification Card US Navy SIC Prototype Training 1974 US Navy Nuclear Power School 1973 US Navy Machinist Mate "A" School 1973

Re-training - 10 weeks supervised self study on Reactor Theory and Reactor Behavior; Heat Transfer, Fluid Flow and Thermodynamics; Safety Related Systems and systems designed to prevent uncontrolled radioactive releases; Instrument and Control Functions & Systems; Normal, Off-Normal and Emergency Operating Procedures.

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S.C. Burger 12/19/82

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Nuclear Fundamentals Training

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GG FSAR Para. 13.2.2.1.3 does not sacrate apply. This checking was completed to 13.2.1.1.5.3.

Note that 13.2.1.1.5.3 does not seem to address what to first do to these who have held an NAC Lie or Qual Nuc.

Nary (para. a says what all storm must do then next para. says will shall also gain...)

cal. t what facility or facilities will be used for the EWR (13.2.2) Observation Training described in Paragraph 13.2.2.1.57 Describe the supervision that the trainers will receive during this phase of training.

PESPONSE

The BWR Observation Course, conducted under the quidance of a General Electric Training Engineer, consists of four years of quided observation of an operational BWR. The Brunswick Nuclear Station and/or Millstone Unit 1 will be used for this observation training. The course provides exposure to plant operating and maintenance evolutions, station record keeping, and station procedures.

C4R 13.2-6

Amend, 18 3/78

20 (Applications)

8/1/1/1/83

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Notes :

- O only evidence of BWR observation training outside of MPEL is a 12 day (4/4/83-4/15/83) course at Browns Ferry Nuclear Power Plant under TVA supervisors.
- Dolly evidence of BWR observation training outside of MPGL 11 a 10 day course of at vermont Yanker. Note that this was only found in the summary section of training record and no backup evidence could be found.
- Deter CRD-78-16 dated Z/7/78 (C.R. Dietz GE to

 L. Nail MPGL) indicates that several people
 attended various 4 week courses BWR

 Observation Training . Could not verify that
 this was at either of the required plants or that
 it was under a G.E. Training engineer. Indications
 are taxt it was under 6.6 supervision.
- Pen letter in file (5/20/83)
 - 1 No evidence of BWR Observer Training
 - @ Application dtd 5/14/82 shows 4 week Observation Training (Vermont Yanker)
- 1 application indicates EDOW/ PPWB 9/72-9/82 60monty
- (3) Letter CRD-77-123 dated 10/0/77 (C.R. Dietz GE to L. NAIL MPEL) indicates that several people attended a 4 week course BWR Observation Training-rould not verify that this was at either of the required plants or that it was under a G.E. Training Engine Indications are that it was under G.E. Supervision.

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- Detter CRD-78-19 dt à 2/13/78 (CR. Dietz GE to

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 - Dual Restor Operation:
 - (1) Application indicates us ways out 1975- May 1980 QUAL E OOW.
 - (1) Application indicates Us Nary Nov. 1974 Feb 1978

 Oval 8000/ppuo. 11/70-2/78, EWS-PPWS 12/73-8/74 &
 7/75-2/78 and SMAW 11/71-11/74
 - 13) Application indicates U.S. Navy Nuclear Pour School 1975-1977 as an instructor
 - @ Application indicates U.S. NAVY 10/78-11/81 EDOW/POWO
 - 13) Taken from resume indicates completed of Navy
 Nuc. Pur school and DIG sensol
 - Vermont Yanker Observation Training Checkoff Cand syned by G.A. Johnson
 - 1 Application shows Navy 11/59-5/79 and indicates
 Navy Nuclear Power Program.
 - (18) Application shows Nayy Sept 1973 12/79 and indicates Nay Nuclear Power Program

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- and industry Navy Nuclear Power Program
- 1 Op-4921 4/27/9 50P-3483 4/27/81
- a Application indicates 6/74-5/79 us Navy also indicates
 Navy Nuclear Power Program.

Overall Note:

on another checklist, we could not verify Navy expenience on but 3 individuals and could not verify nuclear program on one of those.

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UG FSAR

Note : PERRY IS A GWR-6 SIMULATOR.

Does the applicant have any alternative plans for sim-ulator refresher training as described in Ferngraph 13.2.2.1.6 if the GE SWR-6 simulator is not opera-tional. We believe it to be highly desirable that individuals who will sit for a license examination prior to criticality participate in a thort simulator course immediately prior to the examination. In addition, for scheduling purposes, the applicant should understand that license examinations are ad-ministered within two months of fuel loading, not 5 or 6 months prior as shown on Figure 11.2-1. (13.2.2)

RESPONSE

If the 542-6 simulator is not available, GDTS will use either the Dresden simulator or the Browns Perry simulator to conduct the

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Applicants for Sen or Reactor Operator (SRO) license shall have 4 years of p sponsible power plant experience, of which at least 2 years shall be nuclear power plant experience fincluding 6 non as at specific plant) and no more than 2 years shall be /sadenic or related technical training. After fuel loading, a plicants shall have 1 year of experience as a licensed opera' at or equivalent.

Tertification that operator license applicants have learned to operate the controls shall be signed by the highest level of corporate sanagement for plant operation.

Applicants rust revise training programs to include training in heat transfer, fluid flow, thermodynamics, and plant transients.

RESPONSE

Applicants for a Senior Reactor Operator license at the Grand Sulf Auclear Station have at least four years of power plant experience. From to initial plant criticality, at least one year of this power plant experience shall be nuclear power plant experience. After initial plant criticality, each menior licensed operator candidate shall have at least two

> RO Amend. 49 7/81

A maximum of two persons framework for the person of power plant experience. A maximum of two persons (Terrator Training and Qualifications [1] No. 7 years of power plant experience may be fulfilled by academic or related technical to ming on a one-for-one time basis.

Prior to initial plant criticality, the applicant shall possess Prior to initial plant criticality, the applicant shall possess six months of nuclear power plant experience at the Grand Gulf Nuclear Station. This experience may include participation in system acceptance, preoperational testing, and/or writing/verifying plant operating procedures.

after initial plant criticality, the applicant shall possess at least six months of nuclear power plant experience at the Grand Gulf Nuclear Station. The applicant's onsite experience shall include either:

- If the applicant does not hold or has not held an NRC Operator License on GGNS, the individual shall spend three months on shift carrying out the duties of the Control Room Operator while under the direct supervision of the Licensed Control Room Operator. The applicant shall also spend an additional three months on shift carrying out the duties of the Shift Supervisor while under the direct supervision of the Licensed Shift Supervisor.
- If the applicant holds or has held an NFC Operator License on GGNS, the individual shall spend three months on shift carrying out the dulies of the Shift Supervisor while under the direct supervision of the Licensed Shift Supervisor

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Additionally, after initial plant criticality, senior licensed operator applicants shall have held an NRC Operator License for a period of one year.

O could not verify All data taken from latest @ showed \$20 hrs acting as sko under Application except for Same RO, I'r Hate, and column 264 came shift supulsupt - none under LCRO 2-1-12 8/18/92 3 Snowed 520 hrs acting as SRO. a was not RO. previously Pare 14 of 18 (5) showed 520 his acting as shift supervisor () Trok credit for BS. Biology The met inquience (7) Took credit for A.A. Bus. Admin plus Zyrs S w. MS. Junior College. (8) Hald RO For 47 months 3 2 W. . 14/42 6 ref here. Applications at least Former Walter Mass of Women it alter 15 7. 山田田泉之 40 8/10/41 10/16/62 241 25 we have 64 have 64 have experience to girles silvers yes DATE water No. 4 Years SKO (Applications) *** KINEL Four 6 months 66 NS 4 3 moving I mar I you shall by or every time has ar lyr PIRAT mi makes his many outline. FRANK BA WINN to recipe totalence. Waj Rofer entha Caperican N# 66115 LA/A Yes N/4 405 10/8/82 0 . O NO 9/1/93 7es W/A 745 42/4 N/A INA NA Yes the 19/1/93 N/A N/A N/A YE. 1 YES 5.5 1 N/A 10/A 9/3/81 10/4 Yes YES 78.5 1/2 NOW! NIA N/E IN/A 19/1/83 1.765 7 4 5 14 4 IN/A IN/A IN/A IN/A IYES 19/3/91 722 16 455 1465 19/3/81 163/4 1.827 12 NIA Y 53 16 703 1 Yes | N/A | N/A 162.63 N/A N/S 14/1/81 10 441 Yes 40.9 141/A 14/3/81 N/6 8/A 13/6 Yes 1763 N/A 10 40 No DI NA Nin NIA IN/A 5/25/23 461 10/A 72 S N/A IN/A 9/3/81 405 N/A NIA YEL. 1A Yea Yest N 9/1/83 NIA 112 Yes 11/4 403 NIA 721 23 NO DINIA 4/1/23 Ye. 5 NIA Yes 13/ B NIA : 0 ye G NIA 1423 NIA I H/A 19/3/91 HI (E) 70.5 10 NO C NIA 1075 Yes. NIA y + 3 5/14/82 K1/A NIA Yes 10/4 9/3/81 Yes 405 NIA 10 IN/A N/A IN/A Ve3 9/3/81 YES NIA 455 463 WININIA 1 10 / 10 /A 7/3/81 YES Yes 1 12/2 IFA'A 1 Du 11/0 1 N/A 423 1 K2 W: 9/1/21 4/A His 723 NIA NIE 10/9/82

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9.	765	No.		ACCM-81/802 9/3 ACCM-83/0/35 5/15
7 10.	1 725	No.		Atre 61 /271 9/A
12.	IN A			DECH-93/0065 5/1
13.	Yes	No I		25cm-81/002 %3
2 14. March 1986	NA			125cm-81/002 % 3 125cm-81/215 5/13
5 15.	NA			1 A Com-4 1/00 2 V 3
$\frac{2}{3}$ $\frac{13}{14}$ $\frac{15}{15}$ $\frac{16}{17}$	122	No.		Alim-12/215 S/N Alim-11/022 VI Alim-11/022 VI Blim-11/022 VI
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m 19.	Yes	No.		DECM-61/002 9/1
20.	Yes	H C		108cm-82/467 16/8
21.	I NA			ACCM-91/00% 5/881
1, 33	Yes	No Turmin		1 SELM-81/02 4/3/81
S 24 MARIE GARAGE STREET	NA	119		QSL0-31/002 9/3/31
A 15	Yes	Ne -		DECH-\$1/002 V3/11
3 24	NA .	-		Accm. 45/102 4/3/11
27	NA			GESM-91/202 9/9/91
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29.	Yes	Terminated		Dosm-81/002 9/3
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SRO Terminated AECM-92/215 5/14 NA 3 2. AECM-82/215 5/14 NA 33. AECM- 81/002 3 4. NA 90 Terminate d A 6cm-41/002 9/5 NA ASCM-82/467 10/5

S CHAM

© 00214N was not located in individual training record.
It was attached to a memo (asn-formal) S. Oswald to D. Hun-

PAP 01-5-04-2, Rev. 2, dicensed Operator Requalification Fraining, section 6.5.4 was compared with Enclasure 4 to H. Denton's letter of March 28, 1980, PAP 0+5-04-2, Rev. 2 appears to adequately address Enclosure 4 to H. Denton's letter.

> 8. C. Burgers 12/14/83

Es william!

A review of the following heine condidates applications DATE COTTREAT, DATE LETTER NO - 9/3/81 AECIN-63/0305 5/25/83 AEC17- 31/102 AECM-83/6443 8/10/83 3/30/82 18ch-8c/120 5/14/82 AEM-83/0550 9/1/83 AEC11-12/215 AECM-83/0683 19/24/83 10/5/82 1811-82/467 ige HAS ACM-83/0635 10/24/83 3/3/63 101-57/0150 167 x 80 8 53/ 11/1/83. B8

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