

## UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

MAY 1 4 1981

Docket No. 50-341

APPLICANT: Detroit Edison Company

FACILITY: Fermi 2

SUBJECT: SUMMARY OF APRIL 23, 1981 OL REVIEW MEETING REGARDING OPERATION

AND OPEN REVIEW ITEMS

One purpose of the meeting was to hear a presentation by the applicant of its organization and plans for operation of Fermi 2. Another purpose was to discuss major open items in the operating license review and plans for providing information to close them. Enclosure 1 is a list of attendees. Also enclosed is a copy of slides used in the meeting.

Dr. W. H. Jens, Vice President, Nuclear Operations, provided an overview of the corporate organization of the Detroit Edison Company (Slide 1) and description of his organization for operation of Fermi 2 (Slide 2). Detroit Edison has approximately 11,000 employees, of which about 10% have professional degrees. The nuclear generating plant operating organization will be separate from the fossile generating plant operating organization.

Applicant plans to buy a simulator for operator training. The personnel in the quality assurance organization for construction will be involved in the quality assurance organization for operation.

Mr. E. P. Griffing, Fermi 2 Plant Superintendent, described the planned operating organization including background for key personnel (Slide 3). Senior Reactor Operator (SRO) training is being performed by General Physics, of Columbia, Md. Both SROs and reactor operators (ROs) will be a part of management and therefore non-union. Required shift personnel, current staffing, and those in training are shown in (Slide 4).

Procedures required are shown in (Slide 5). Sixty percent of the operating procedures are completed and 87% of the plant procesures are approved (Slide 6).

Mr. Eldon Alexanderson, Director of Nuclear Engineering, presented a description of his organization (Slide 7 through Slide 11). There are 65 people in his organization and an additional 125 engineers and scientists available to draw from for specific assignments.

Mr. Lawerence Kanous, Director of Nuclear Training, described the Detroit Edison training programs. Various organizations under his direction are shown in (Slide 12 through Slide 19).

Detroit Edison provided copies of revised chapter 13 in the FSAR which incorporates latest organization changes.

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The status of review of major review items was discussed. Item II.B.2, Plant Shielding, provided in FSAR Appendix H, has been reviewed and found to be incomplete because shielding design and procedural changes resulting from TMI requirements have not been described. Radiation zone maps and a drawing showing the location of containment radiation monitors was requested.

The staff said that additional information was needed to reach a finding that the Mark I containment modifications were acceptable. Applicant provided some information during the meeting for our consideration.

Staff advised that the plant visit for fire protection review would not be made until more than 90% of the cable was pulled. Mr. Fahrner stated that this condition was met.

Staff requested that preservice inspection of ASME Class 2 components be provided. (This information was provided subsequent to the meeting).

Staff requested that applicants plan to submit the response to NUREG-0588 "Environmental Qualification of Safety Related Electrical Equipment as soon as possible so that it may be included in the Supplement to the SER (scheduled for issuance August 31, 1981). Applicant said it would reconsider its planned submittal date of July 1, 1982.

Staff provided draft requests for information regarding exemptions to Appendices G and H to 10 CFR 50.

Staff provided position, from the Reactor Systems Branch, based on its review of the applicant's response to staff questions.

L. L. Kintner, Project Manager Licensing Branch No. 1

Division of Licensing

Enclosure: As stated

cc: See next page

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cc: Eugene B. Thomas, Jr., Esq. LeBoeuf, Lamb, Leiby & MacRae 1333 New Hampshire Avenue. N. W. Washington, D. C. 20036

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> Mr. William J. Fahrner
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Mr. Larry E. Schuerman Detroit Edison Company 3331 West Big Beaver Road Troy, Michigan 48084 David E. Howell, Esq. 21916 John R Hazel Park, Michigan 48030

Mr. Bruce Little U. S. Nuclear Regulatory Commission Resident Inspector's Office 6450 W. Dixie Highway Newport, Michigan 48166

Dr. Wayne Jens Detroit Edison Company 2000 Second Avenue Detroit, Michigan 48226

#### Enclosure 1

Detroit Edison Co. - NRC Meeting April 23, 1981

#### NRC

E. S. Pedersen

D. Vassallo

J. O. Thoma L. N. Rib

P. Boehnert

J. Youngblood J. Nehemias

L. Kintner

F. Skopec

C. P. Tan P T. Kuo D. Jeng

W. Haas

R. Ferguson

R. Anand

G. Harrison

J. Mazetis

T. Collins

W. Hodges

C. Woodhead

#### KMC - LRG

R. S. Boyd

#### LeBeouf, LAMB

C. Landgraf

#### NUS

J. E. Slider

R. K. Mattu

#### Detroit Edison

L. E. Schuerman

W. F. Colbert

E. V. Lusis

E. P. Griffing

H. Tauber

W. Holland

E. L. Alexanderson

L. E. Kanous

W. H. Jens

W. J. Fahrner

M. L. Batch

E. Madsen

A. E. Wegele

D. Wells

P. Marguardt

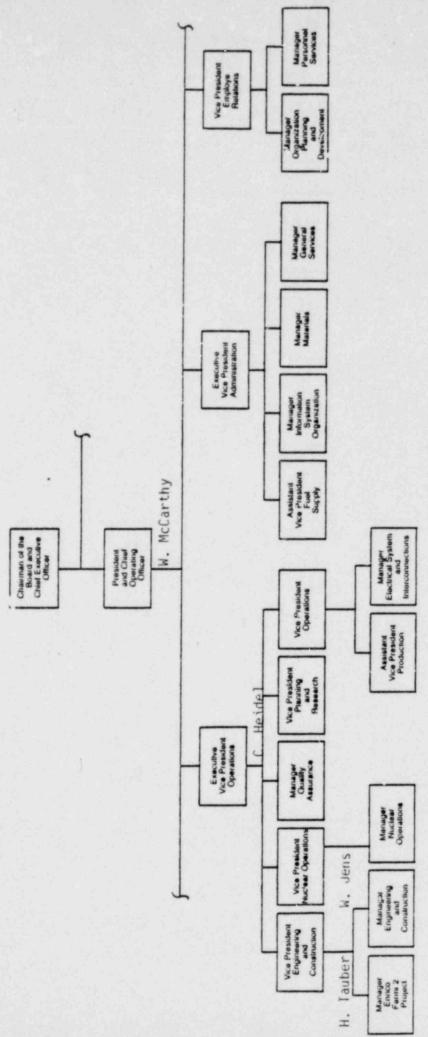
D. Lehnert

J. W. Honkala

R. C. Anderson

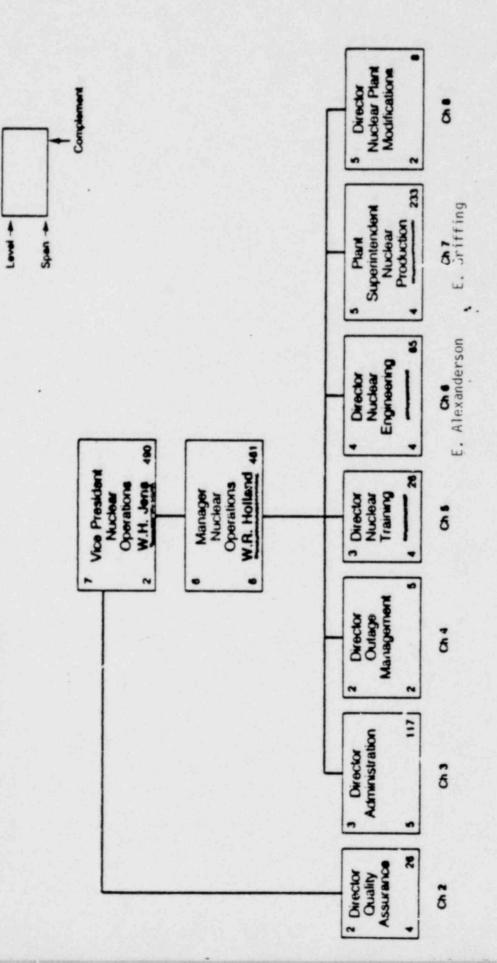
Q. H. Duong

# Corporate Organization (Partial) Figure 13.1-1

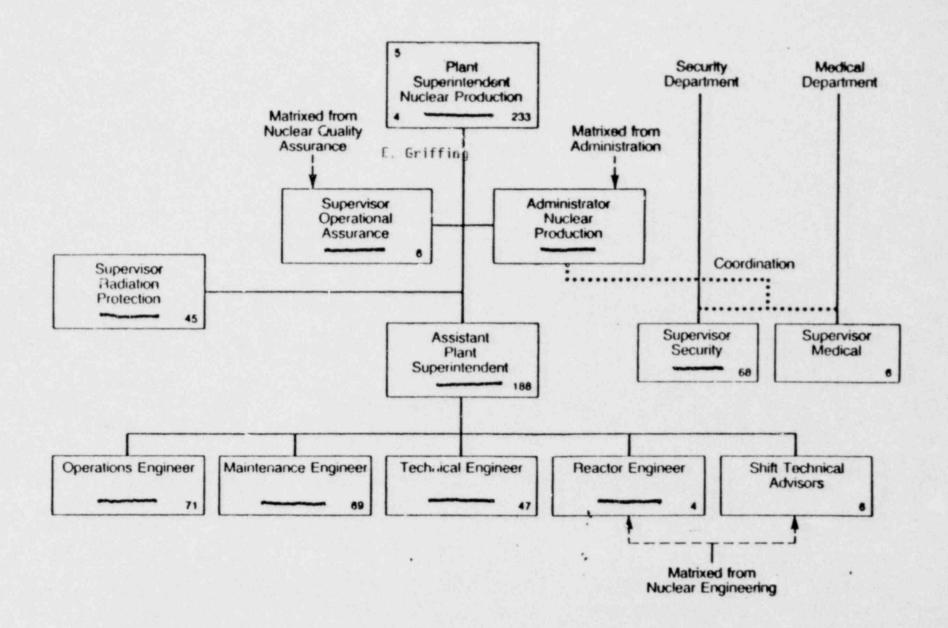


W. Fahrner

ORIGINAL



\*Not including 74 security and medical personnel



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#### OPERATIONS SECTION

#### Licensed Operator Requirement Plan - Five shift schedule Shift Complement Nuclear Shift Supervisor (SRO) Nuclear Assistant Shift Supervisor (SRO) Nuclear Supervising Operators (RO) 2 Nuclear Power Plant Operators 3 Nuclear Assistant Power Plant Operators 2 9 Total Operators per Shift Licensed Operators per Shift 4 Licensed Operator Candidate Resource - Objective Number Operator Candidates needed for 5 shifts 20 Post fuel load objective - Six shift schedule (4 Licensed Operators/Shift) (6 Shifts) 24 Operations Training Coordinator 1 Fuel Handling Supervisor 1 Subtotal 26 Assume 30% NRC License Failure rate x 1.3 Subtotal 34 Attrition 6 Required number of License Candidates 40 License Operator Candidate Resource - Actual Number SRO Certified Candidates 15 Number 20 Certified Candidates 3 15 Number Candidates in Certification Training Total Operator Candidates 33 7 Number Operator Candidates to be hired

Slide 4

Required Number of License Candidates

JAN 4/21/81

40

		to be written			Plat Draft		,	Tallow Draft			Gram Fraft			Blue Draft			o. of Procedures		
			OTEZAS											(Approved)			Outstand Log		
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62.001.II	Realth Physics - Personnel Doctmeres	0	7	0	0	0	0	0	0	0	0	0	0	0		o	0		0
62.002.E	Health Physics - Surveying & Analysis	0	. 3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0
62.004.IX	Realth Physics - Instrument Operation Realth Physics - Instrument Colibration	0	5	0	0	0	0	0	0	0	0	0	0	0	3	0	0		0
62.005.XX	Health Physics - Calibration bowtens	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0		0
62.006.II	B.P Protective Clothing & Lauisment	0		0	0	0	0	0	0	0	0	0	0	o		0	0		0
62.007.II	B.F Contamination Control & Decontamination	0	3	0	0	0	0	0	0	C	0	0	0	0	3	0	0		0
63.000.XX	M.P Surveying & Analysis	0		0	0	0	0	0	0	0	0	0	0	0	3	0	a	1	0
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71.004.11	Environmental - Environmental Pros	0	2	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
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73.006.13	Chemistry - Chemical Analysis	9	31	0	0	0	0	0	0	0	0	0	0	0	44	0	0	41	0
74.000.XX	Charletry - Charletry	0	12	0	0	0	0	0	0	0	0	0	0	0	29 12	0	0	2	0
74.003.2	Rad toches lat Py			1	0	0	0	0	0	0	0		0	0	0	0	0	2	1
74.008.XX	Rediochemistry - Instante Analysis		17	0	0	0	0	0	Ü	0	0	U	0	0	1	0	1	16	0
73.000.77	Chamistry - Chamical Preparation		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
76.000. II	Chemistry - Lewipsent Endischamistry - Ladischamistry	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
77.000.XX	Chapterry . Sampling & Ladwesta	0	15	1	0	0	0	0	0	0	0	0	0	0	14	0	0	3	0
78.000.XX	Radiochamistry - Special Teats	1	11	ô	1	0	0	9	0	0	0	0	0	0	2	0	0	:	0
12.000.XX	Fiel Randling - General	10	0	0	1	0	0	2	0	0	2	0	0	1	ō	0		i	0
M.000.II	Fuel Sandling - Surveillance Radioactive Material Endling	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0
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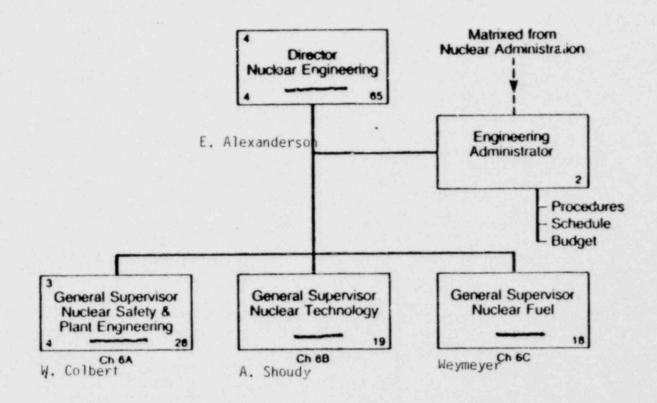
#### PROCLUURE STATUS\*

#### (AS OF MARCH 31, 1981)

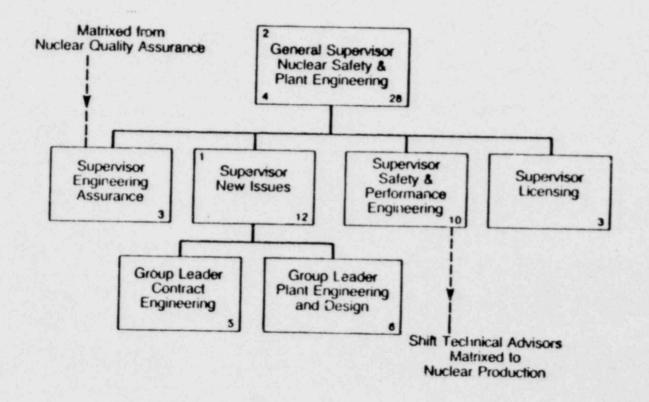
TYPE OF PROCEDURE	IQIA.	NUMBER APPROVED	PRELIMINARY DRAFT
CHECKOUT AND INITIAL OPERATION PROCEDURE (CAIO)	166	161	165
ACCEPTANCE TEST PROCEDURE (ACPT)	37	29	35
PREOPERATIONAL TEST PROCEDURE (PRET)	107	82	101
TOTAL**	310	2/2 (27,7%)	301 (97,1%)

<sup>\*</sup> DOES NOT INCLUDE PROCEDURES NEEDED DURING STARTUP TEST PHASE, (I.E. LOADING FUEL TO COMMERCIAL OPERATION).

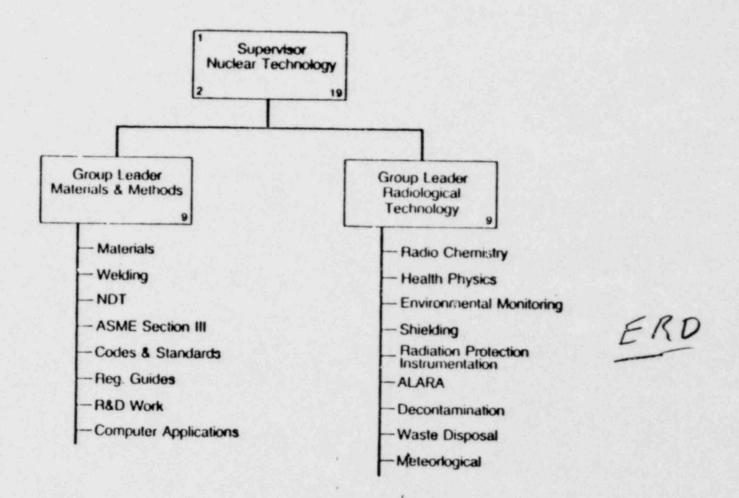
<sup>\*\*38</sup> PROCEDURES ARE IN VARIOUS STACES OF APPROVAL, TESTING IS NOT HELD UP FOR LACK OF PROCEDURES.



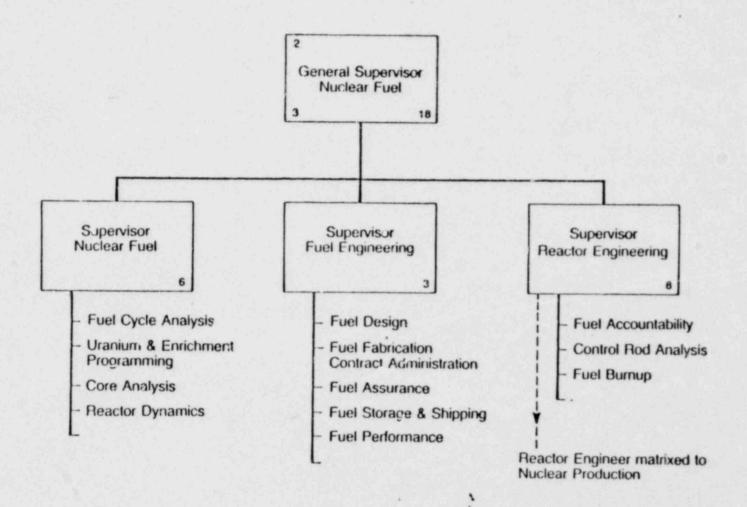
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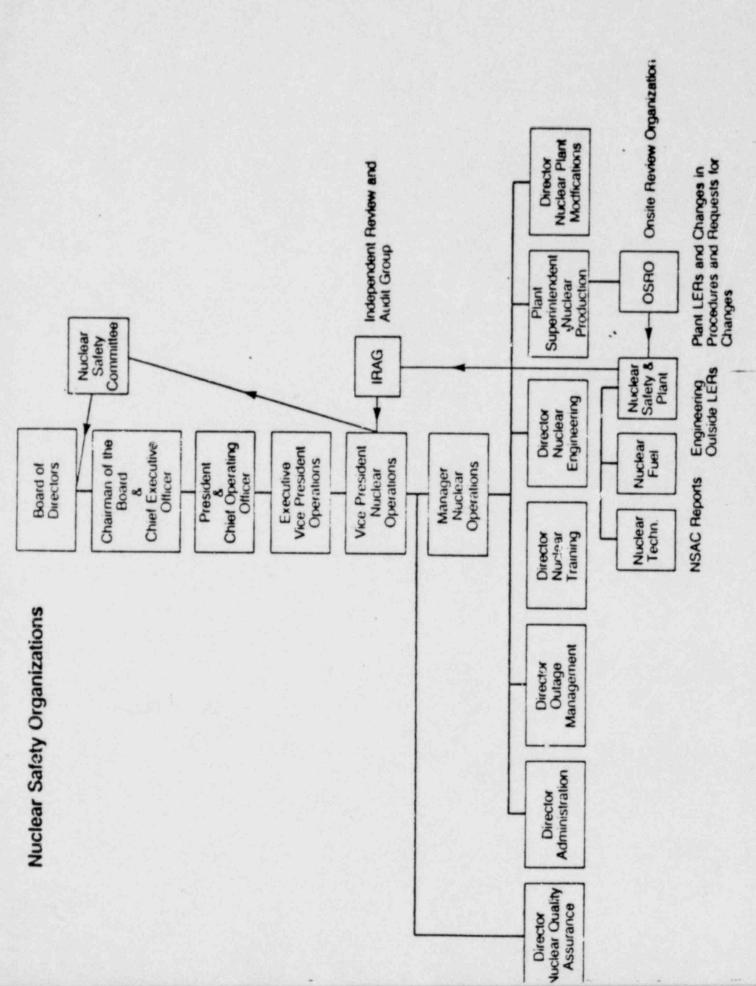


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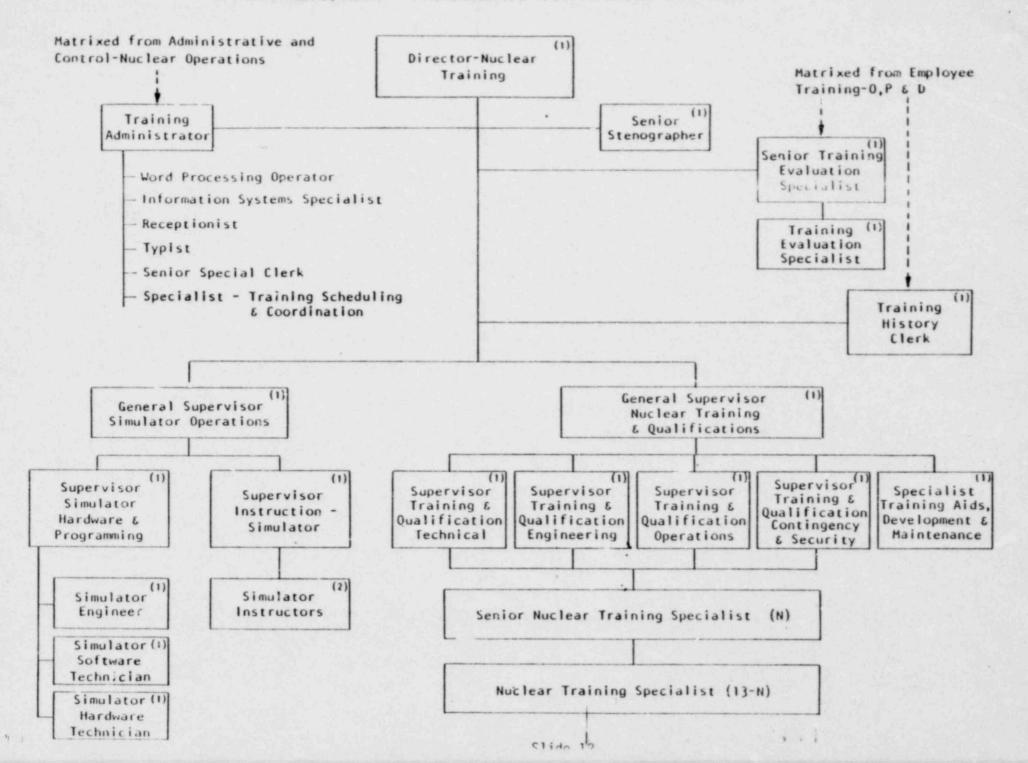
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Slide 11

#### ORGANIZATION - NUCLEAR TRAINING GROUP



## ORIENTATION INDUSTRY RELATED DUTY RELATED

## **ORIENTATION**

PROVIDES INFORMATION NEEDED BY NEW EMPLOYES

IN ORDER TO PERFORM THEIR DUTIES IN THE PLANT SAFELY

THA BASIC KNOWLEDGE OF THE CODES AND STANDARDS

UNDER WHICH THE NUCLEAR PLANT OPERATES.

THE CONTENT IS MAINLY COGNITIVE WITH SKILL EXERCISES PROVIDED IN EACH CASE WHERE MEED IS SHOWN.

## INDUSTRY RELATED

PROVIDES KNOWLEDGE AND SKILLS NEEDED BECAUSE
THE TASKS ARE PERFORMED IN A NUCLEAR POWER PLANT QA/QC, PROCEDURAL DISCIPLINE, RADIATION SAFÉTY, ...
DOCUMENTATION REQUIREMENTS, ETC.

## DUTY RELATED

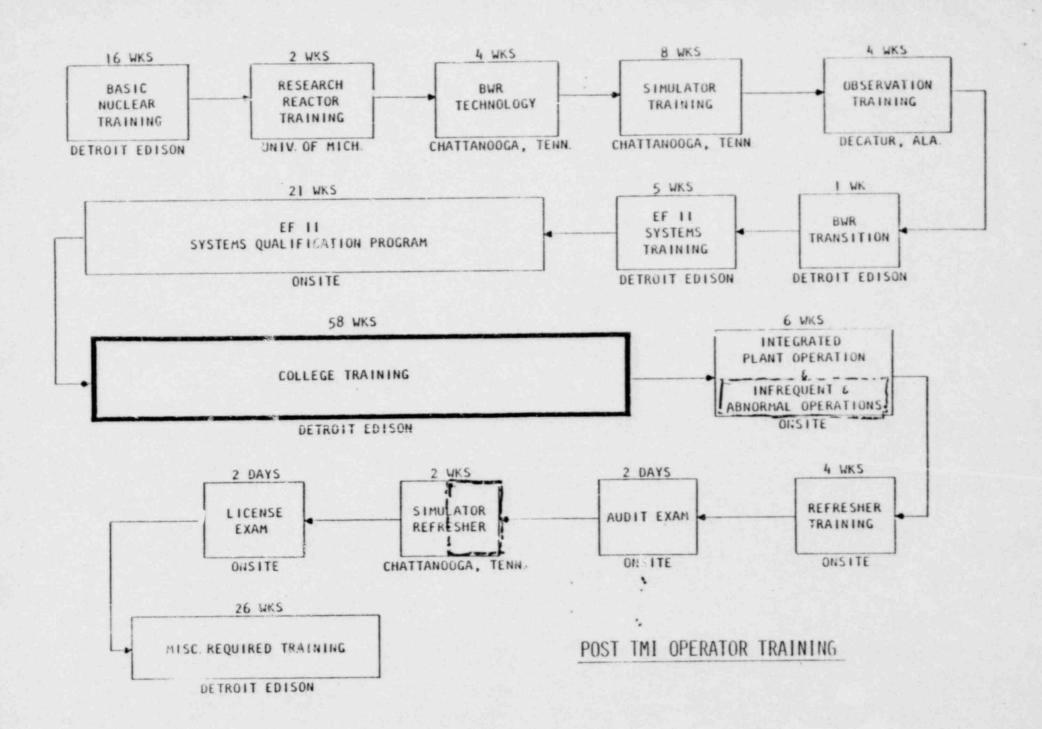
PROVIDES KNOWLEDGE AND SKILLS REQUIRED TO

PERFORM SPECIFIC TASKS AND DUTIES OF THE JOB TO

WHICH THE EMPLOYE IS ASSIGNED. PROGRAMS INCLUDE.

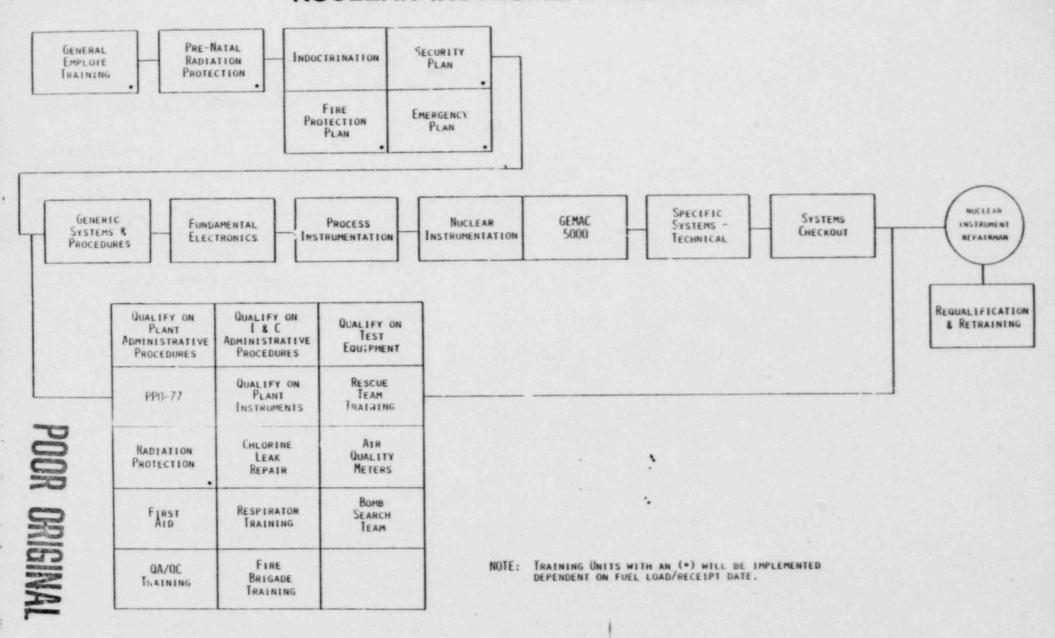
COGNITIVE MATERIALS, HANDS-ON EXERCISES AND A

REQUIRED CERTIFICATION OF DEMONSTRATED PERFORMANCE.



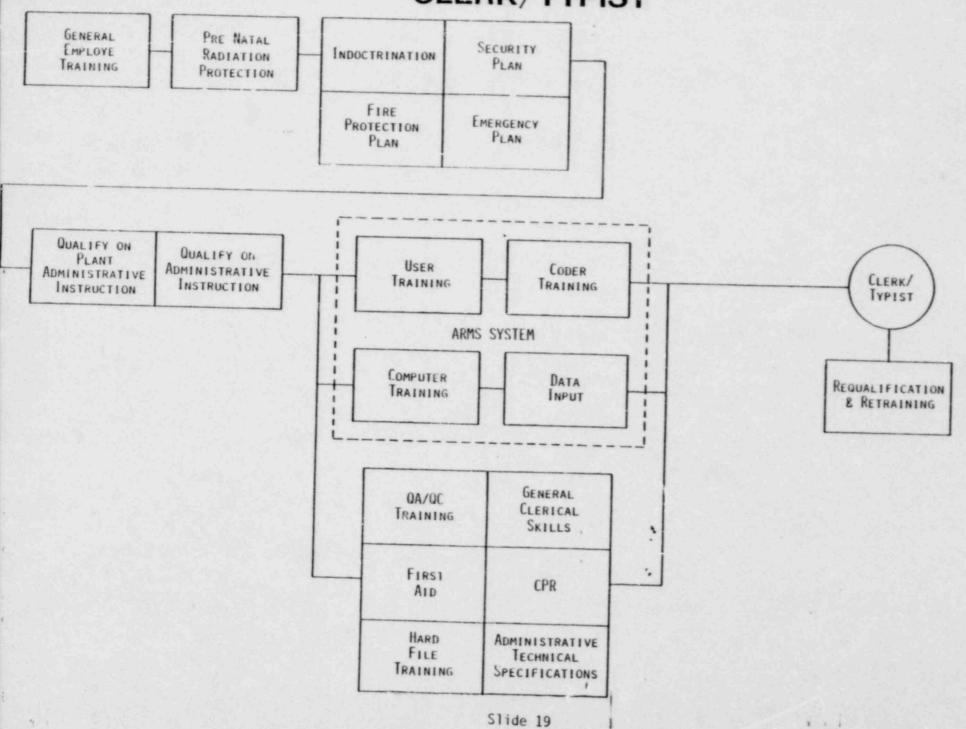
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### NUCLEAR INSTRUMENT REPAIRMAN



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## CLERK/TYPIST



#### MEETING SUMMARY DISTRIBUTION

Docket File MAY 1 4 1981 NRC PDR Local PDR TIC/NSIC/Tera N. Hughes LB#1 Reading H. Denton E. Case D. Eisenhut R. Purple B. J. Youngblood A. Schwencer F. Miraglia J. Miller G. Lainas R. Vollmer J. P. Knight R. Bosnak F. Schauer R. E. Jackson Project Manager LKintner Attorney, OELD M. Rushbrook OIE (3) ACRS (16)

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8 Tollar

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P. Collins

D. Ziemann

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