

FOIC

CHAPTER 6

HNDT 2

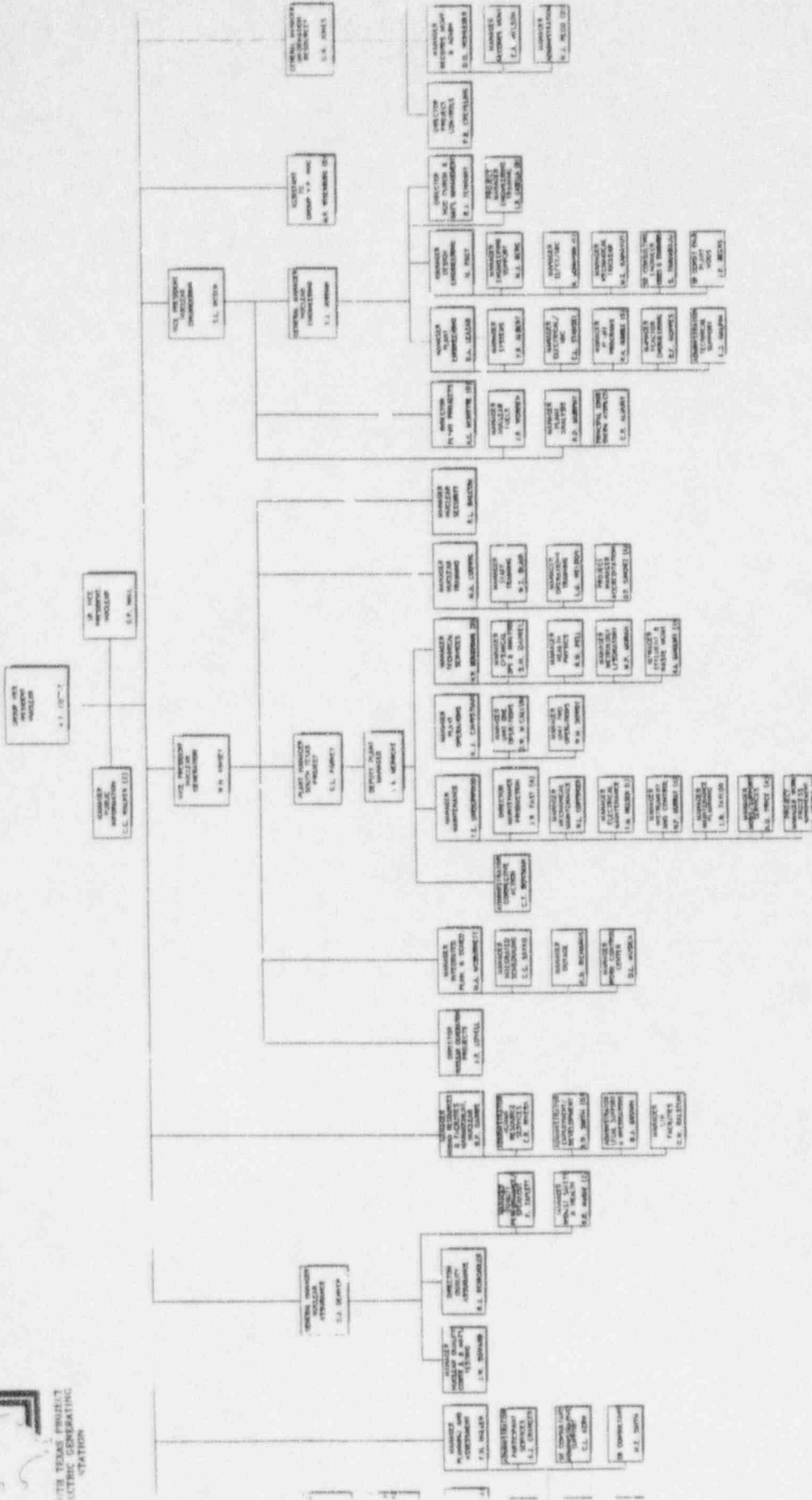
EXAMPLE

ORGANIZATION CHARTS



TEXAS PROJECT  
ATOMIC GENERATING  
STATION

# NUCLEAR GROUP ORGANIZATION



*R. Jones*

10-10-60

10-10-60

WCGS DOCUMENT CONTROL  
0057

ORGANIZATION CHARTS

WCNOC-20A

REV. 15

FEBRUARY 1993

PRESIDENT & CEO APPROVAL

*B. Smith*

DATE 2-12

DC1 2/15/

WOLF CREEK NUCLEAR OPERATING CORPORATION

WONOC ORGANIZATION CHART INDEX

REVISION 15

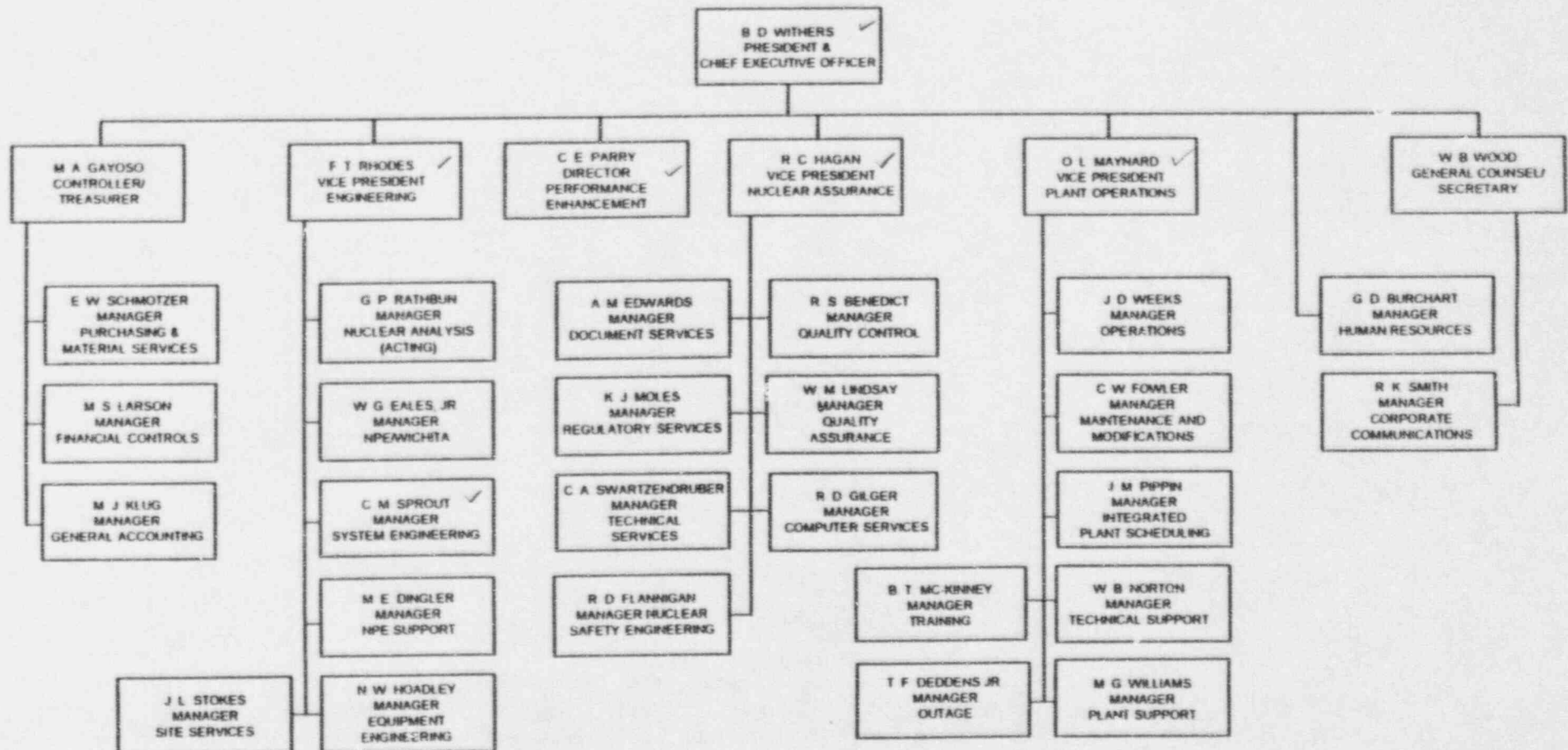
JANUARY 1993

ORGANIZATIONAL ELEMENT <u>NAME</u>	CHART <u>NUMBER</u>	REVISION <u>NUMBER</u>
Corporate	A	14
Human Resources	A1	2
Accounting/Controller	B	10
Purchasing & Material Services	B	10
Nuclear Assurance	C	11
Quality Assurance	C1	2
Quality Control	C2	2
Regulatory Services	C3	2
Document Services	C4	2
Computer Services	C5	2
Technical Services	C6	1
Engineering	D	11
NPE/Wichita	D1	1
Nuclear Analysis	D2	1
Equipment Engineering	D3	1
System Engineering	D4	1
NPE Support	D5	1
Nuclear Operations	E	11
Training	E1	10
Maintenance & Mod.	E2	2
Technical Support	E3	2
Operations	E4	2
Plant Support	E5	2

# WOLF CREEK

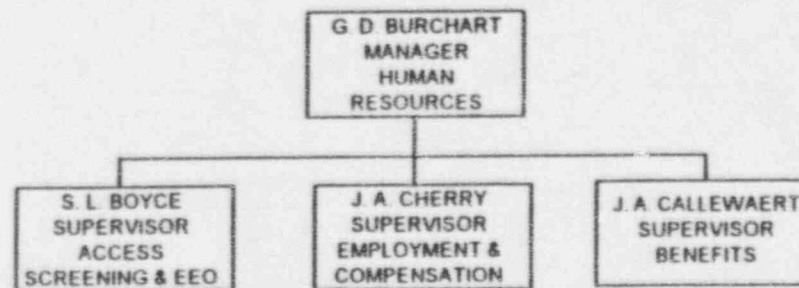
NUCLEAR OPERATING CORPORATION

ORGANIZATION CHART A  
REVISION 14 DATE 2/93





ORGANIZATION CHART A1  
REVISION 2 DATE 2/93

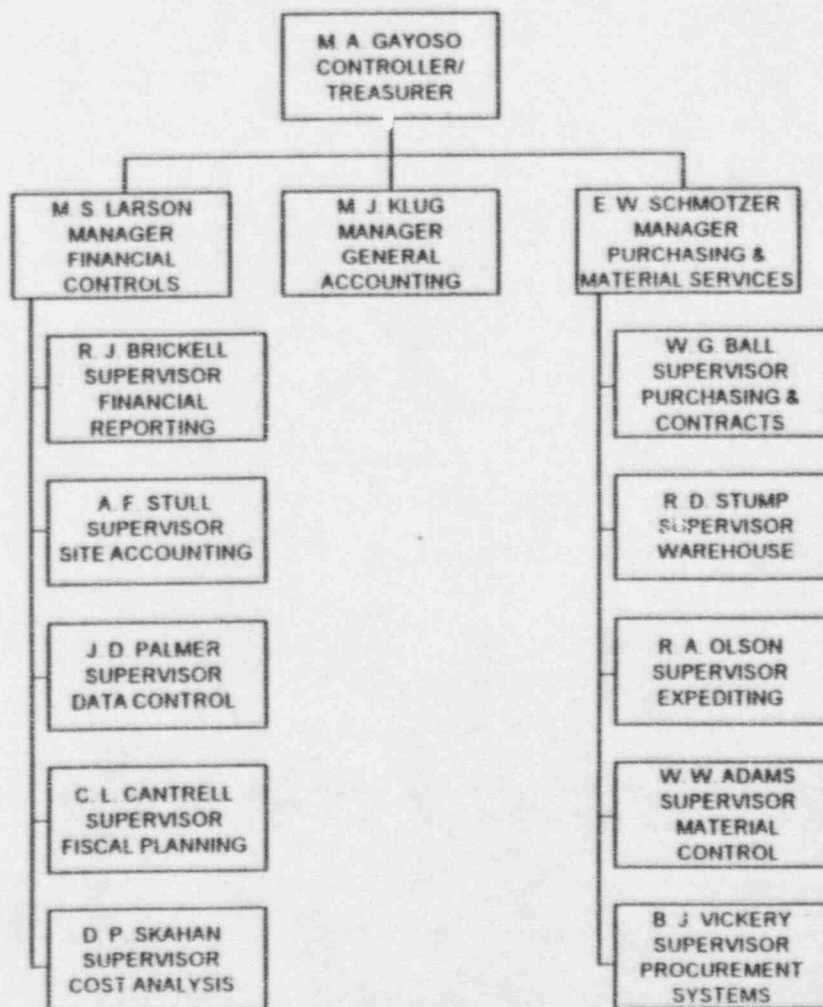




# WOLF CREEK

NUCLEAR OPERATING CORPORATION

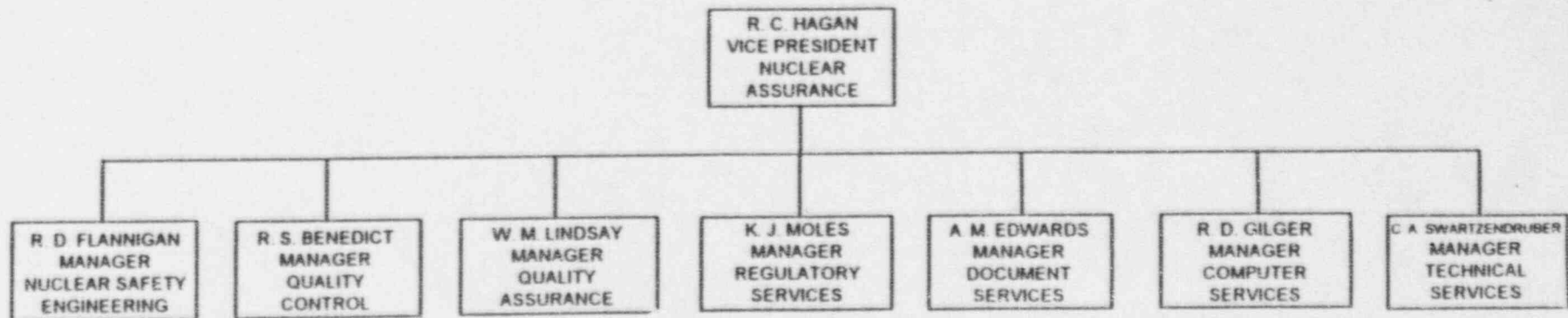
ORGANIZATION CHART B  
REVISION 10 DATE 2/93



# WOLF CREEK

NUCLEAR OPERATING CORPORATION

ORGANIZATION CHART C  
REVISION 11 DATE 2/93

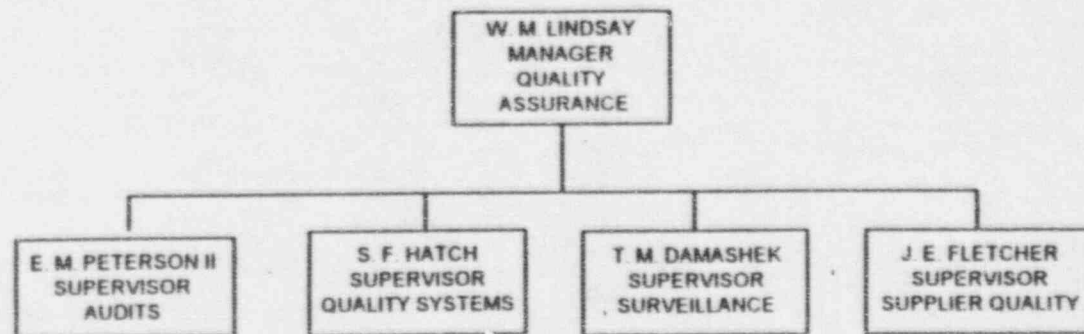




# WOLF CREEK

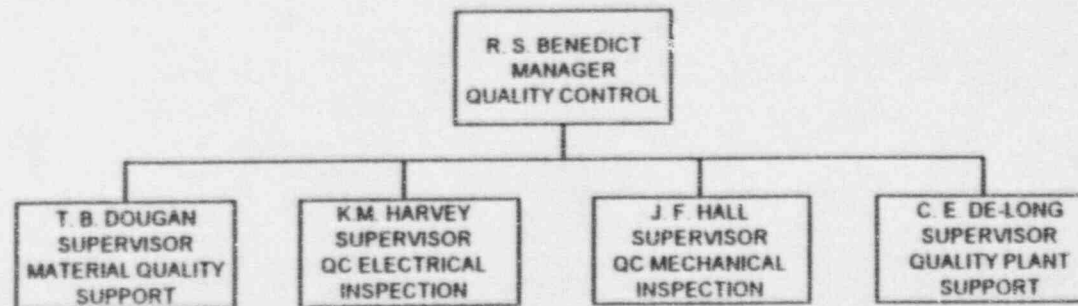
NUCLEAR OPERATING CORPORATION

ORGANIZATION CHART C1  
REVISION 2 DATE 2/93



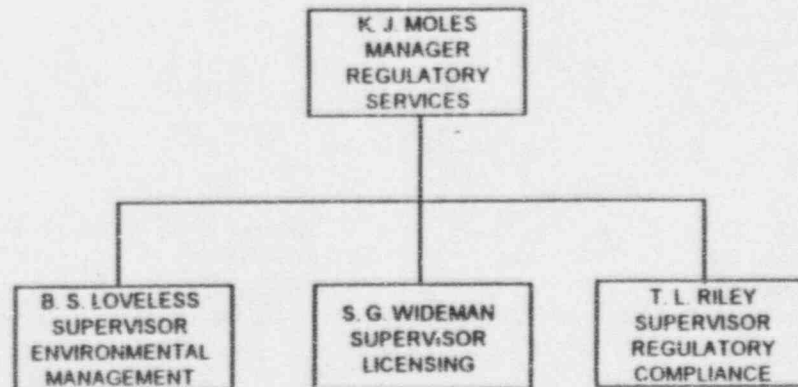


ORGANIZATION CHART C2  
REVISION 2 DATE 2/93





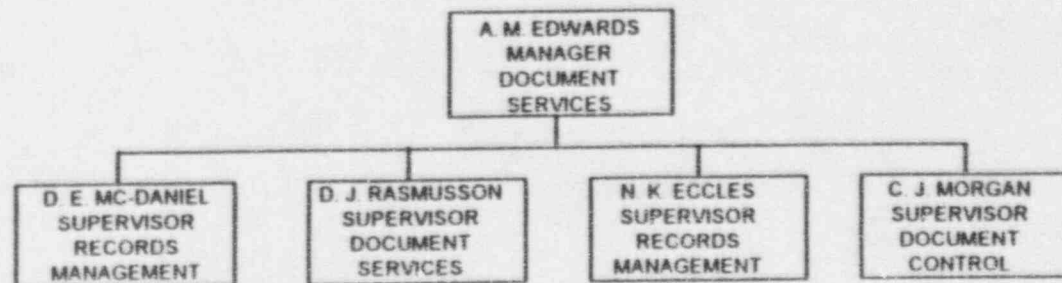
ORGANIZATION CHART C3  
REVISION 2 DATE 2/93



# WOLF CREEK

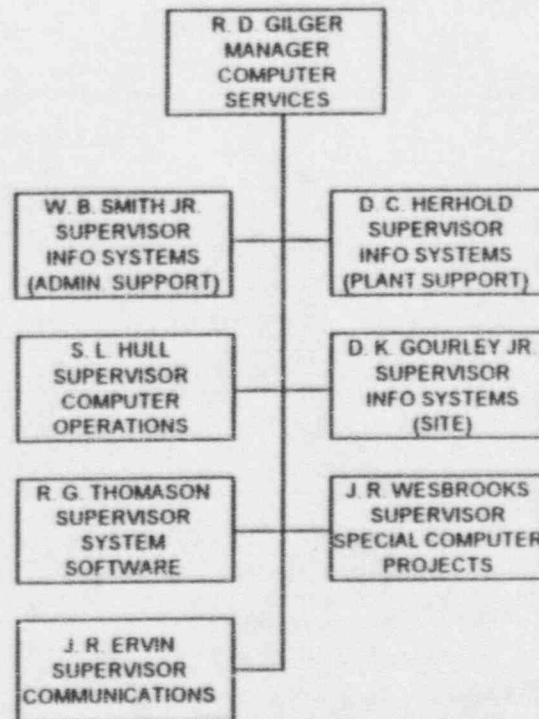
NUCLEAR OPERATING CORPORATION

ORGANIZATION CHART C4  
REVISION 2 DATE 2/93





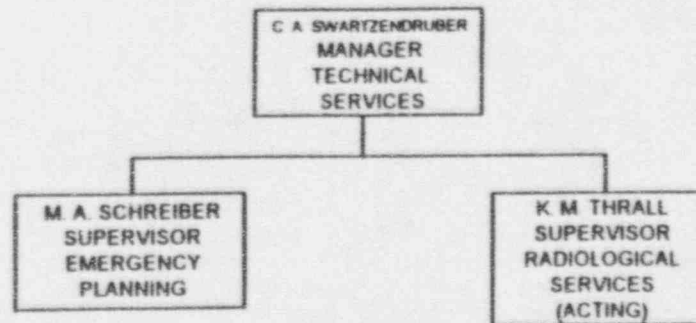
ORGANIZATION CHART C5  
REVISION 2    DATE 2/93



# **WOLF CREEK**

NUCLEAR OPERATING CORPORATION

ORGANIZATION CHART C6  
REVISION 1 DATE 2/93

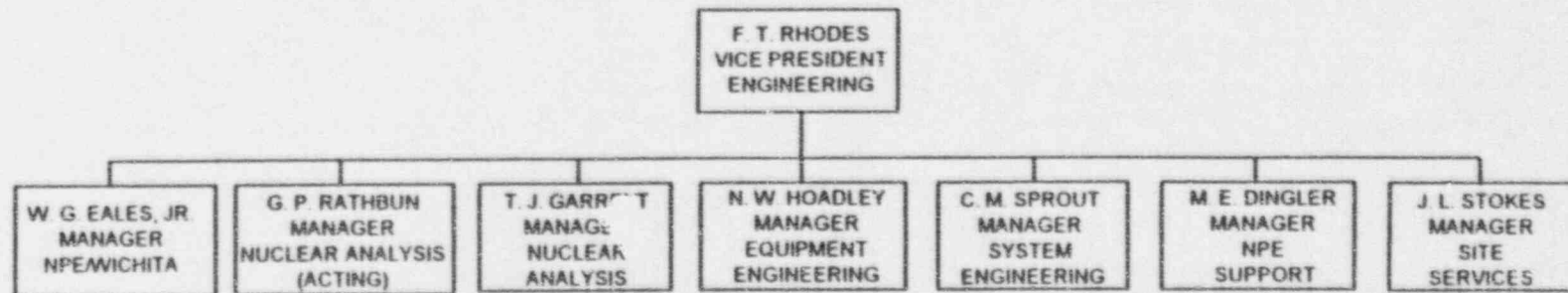




# WOLF CREEK

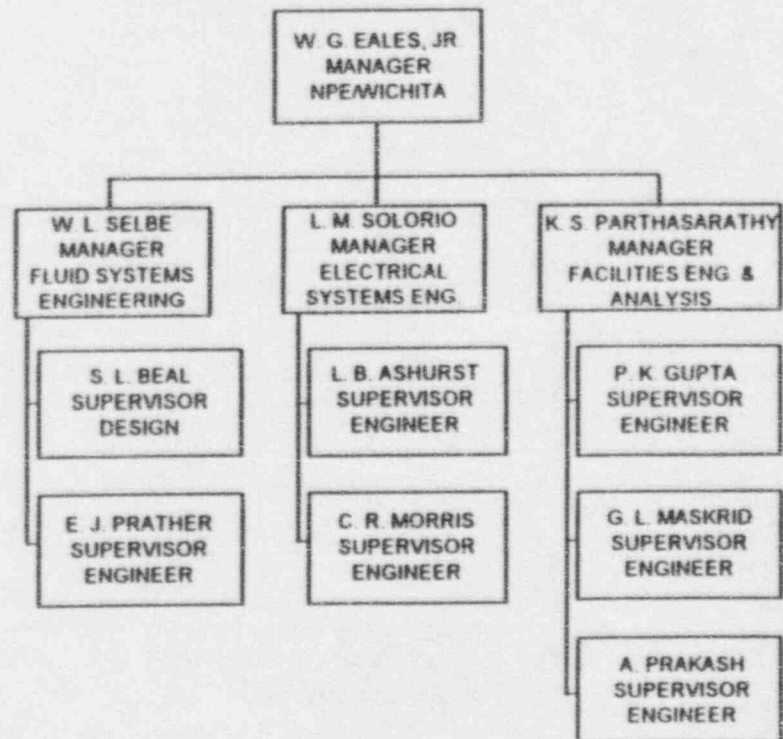
NUCLEAR OPERATING CORPORATION

ORGANIZATION CHART D  
REVISION 11 DATE 2/93





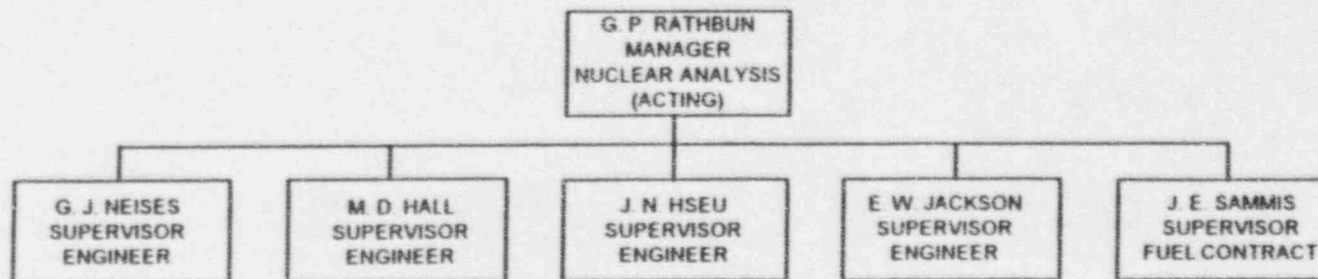
ORGANIZATION CHART D1  
REVISION 1 DATE 2/93



# **WOLF CREEK**

NUCLEAR OPERATING CORPORATION

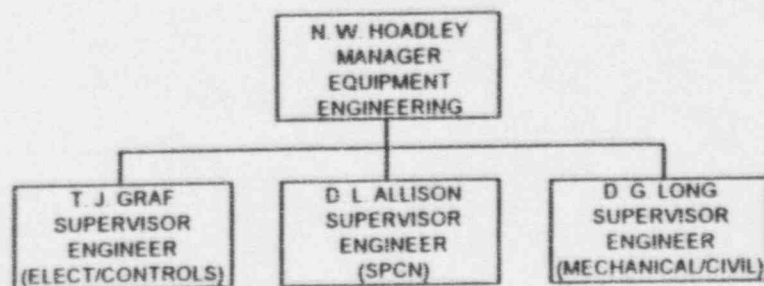
ORGANIZATION CHART D2  
REVISION 1    DATE 2/93



# WOLF CREEK

NUCLEAR OPERATING CORPORATION

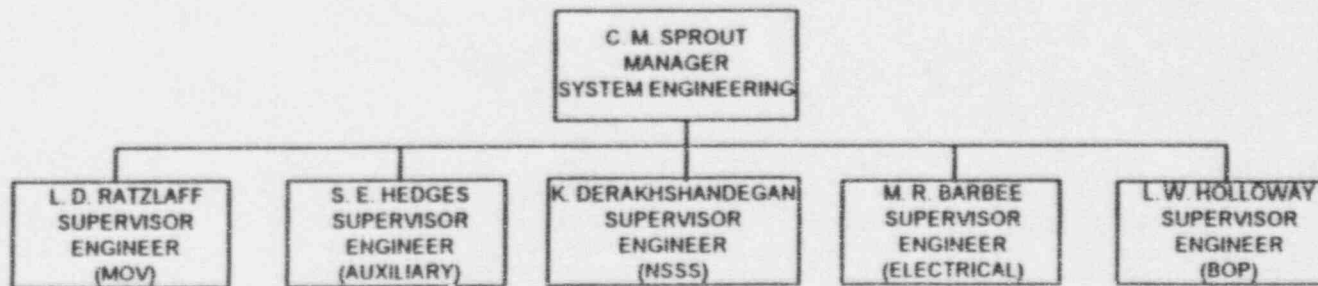
ORGANIZATION CHART D3  
REVISION 1    DATE 2/93



# WOLF CREEK

NUCLEAR OPERATING CORPORATION

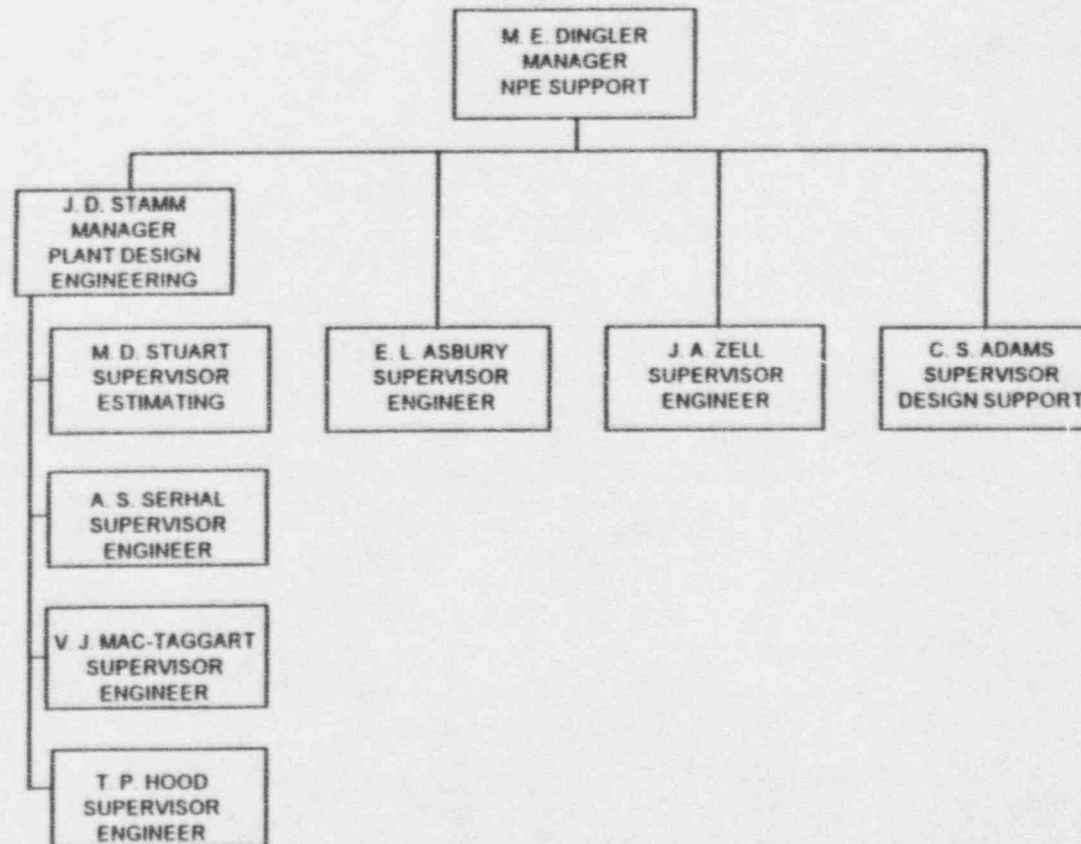
ORGANIZATION CHART D4  
REVISION 1    DATE 2/93



# WOLF CREEK

NUCLEAR OPERATING CORPORATION

ORGANIZATION CHART D5  
REVISION 1 DATE 2/93

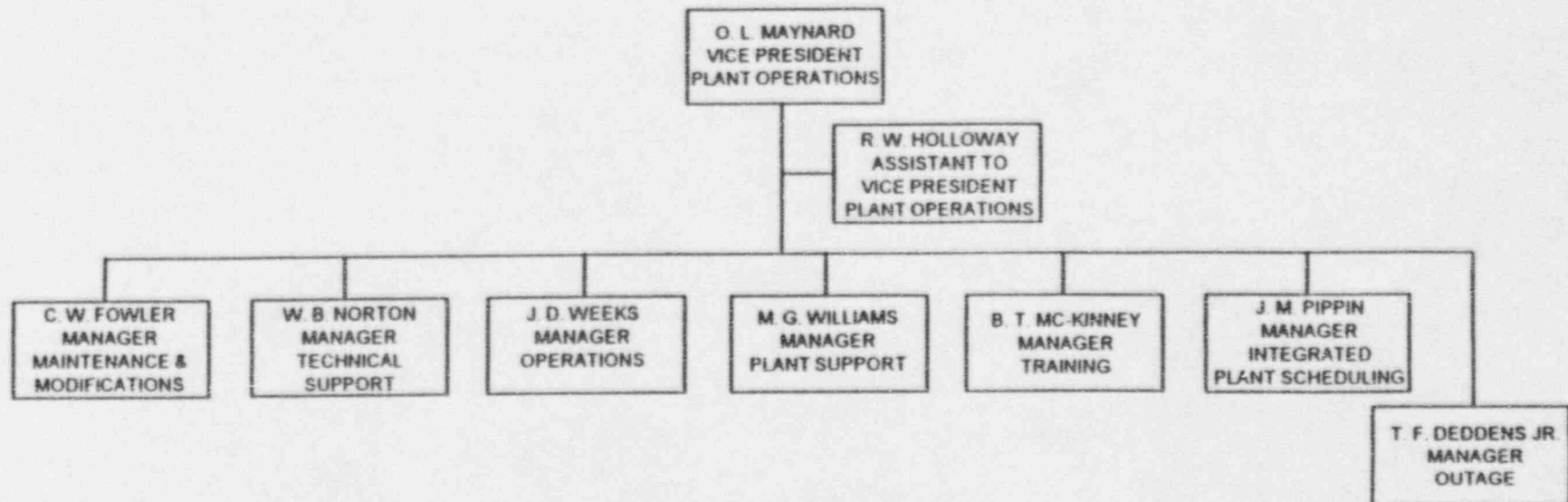




# WOLF CREEK

NUCLEAR OPERATING CORPORATION

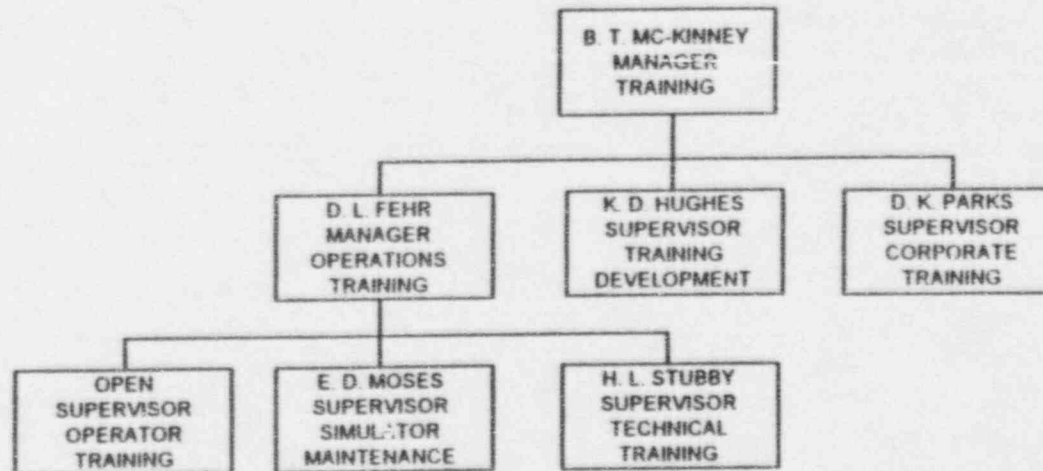
ORGANIZATION CHART E  
REVISION 11 DATE 2/93



# WOLF CREEK

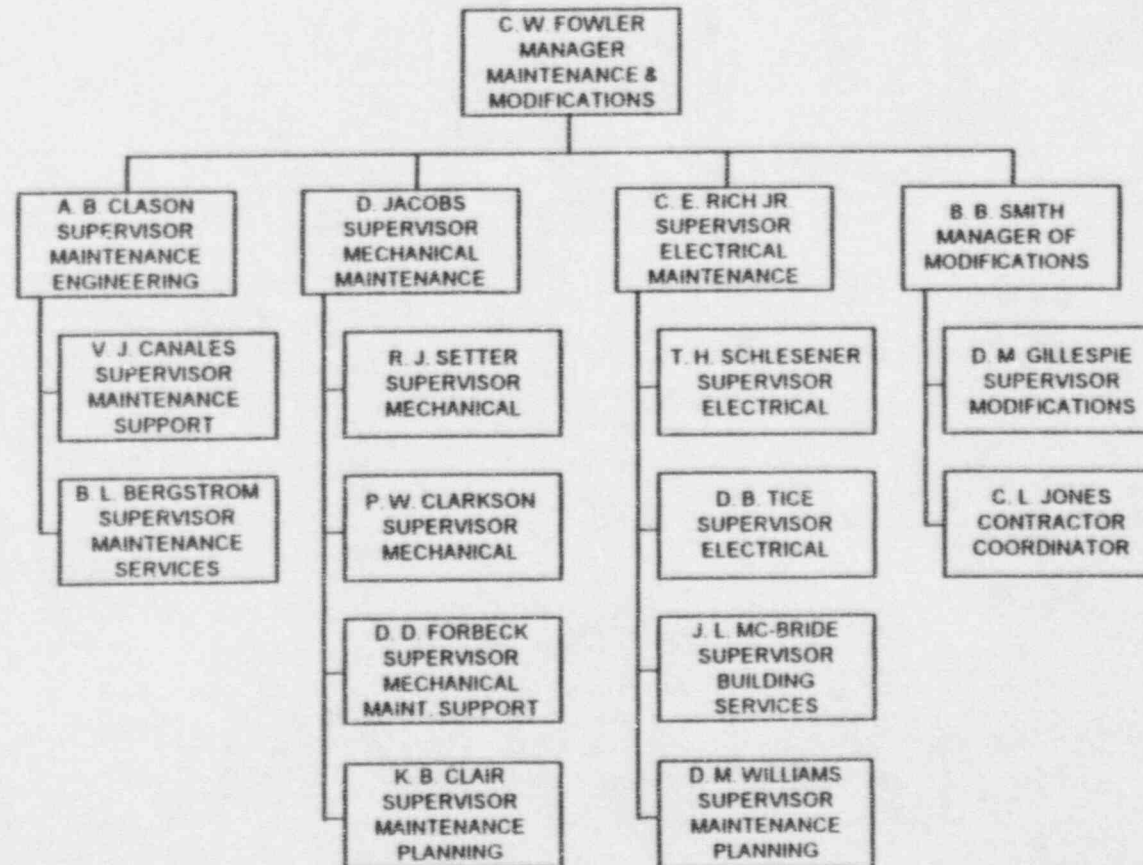
NUCLEAR OPERATING CORPORATION

ORGANIZATION CHART E1  
REVISION 10    DATE 2/93





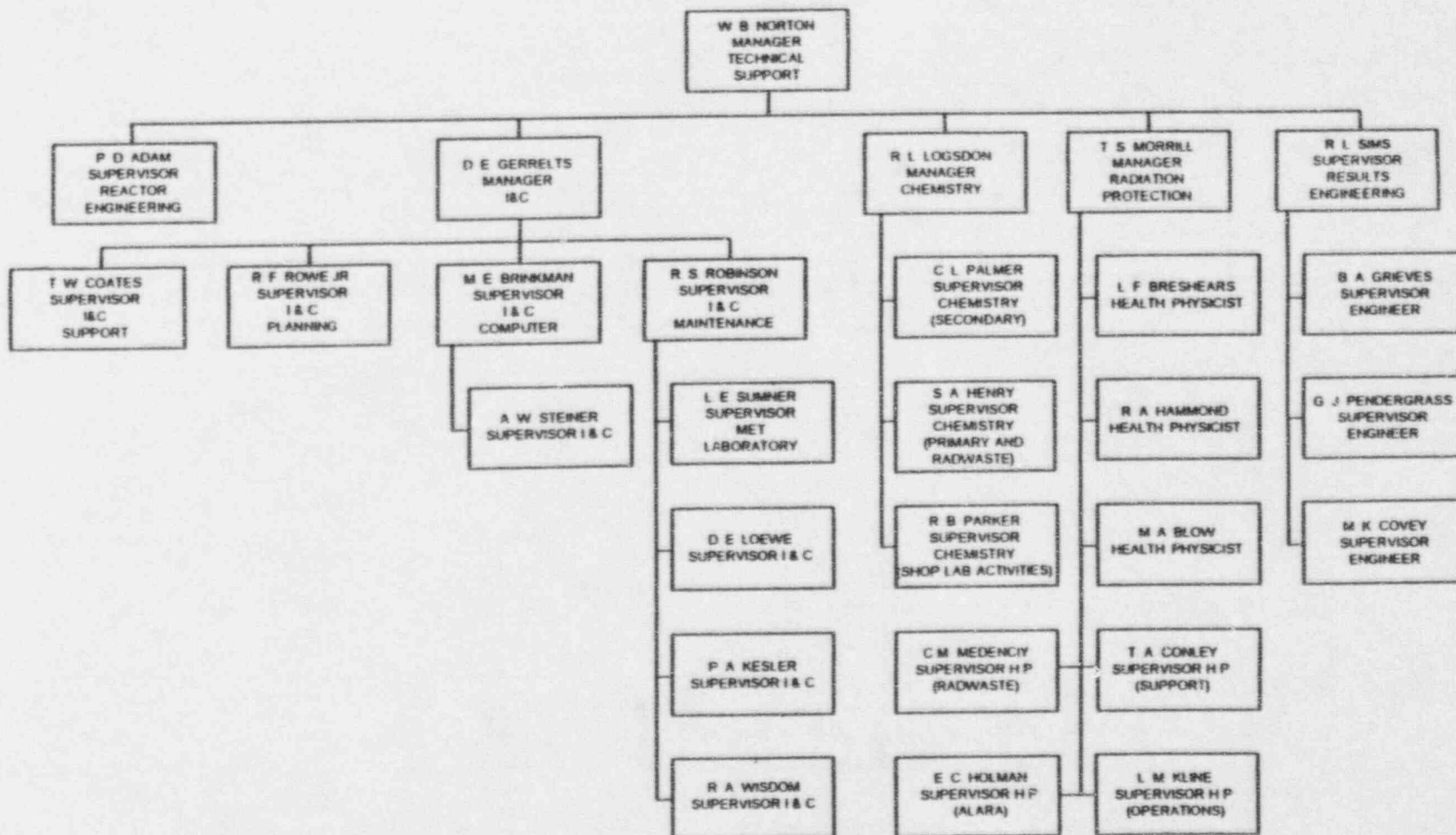
ORGANIZATION CHART E2  
REVISION 2    DATE 2/93



# WOLF CREEK

NUCLEAR OPERATING CORPORATION

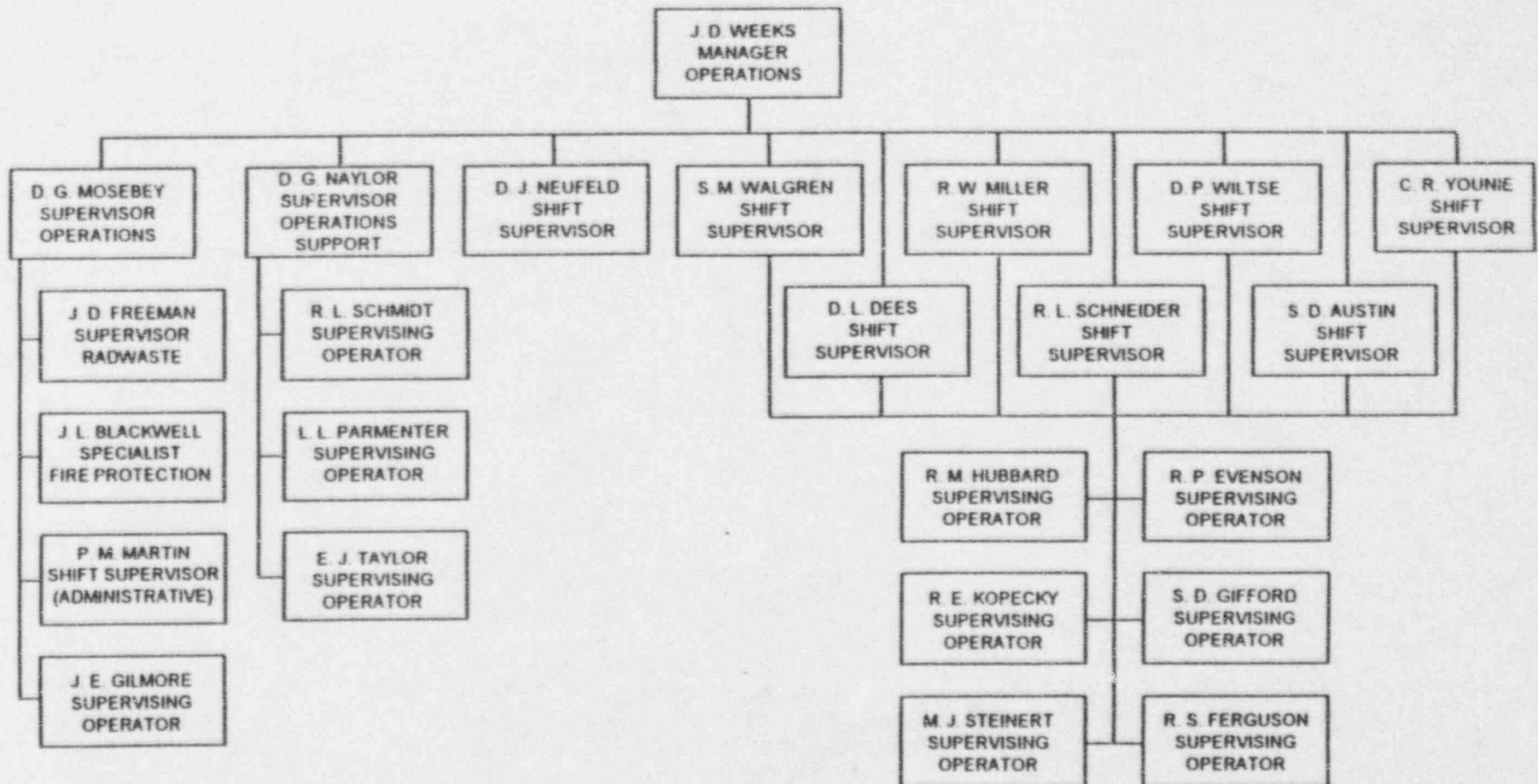
ORGANIZATION CHART E3  
REVISION 2 DATE 2/93



# WOLF CREEK

NUCLEAR OPERATING CORPORATION

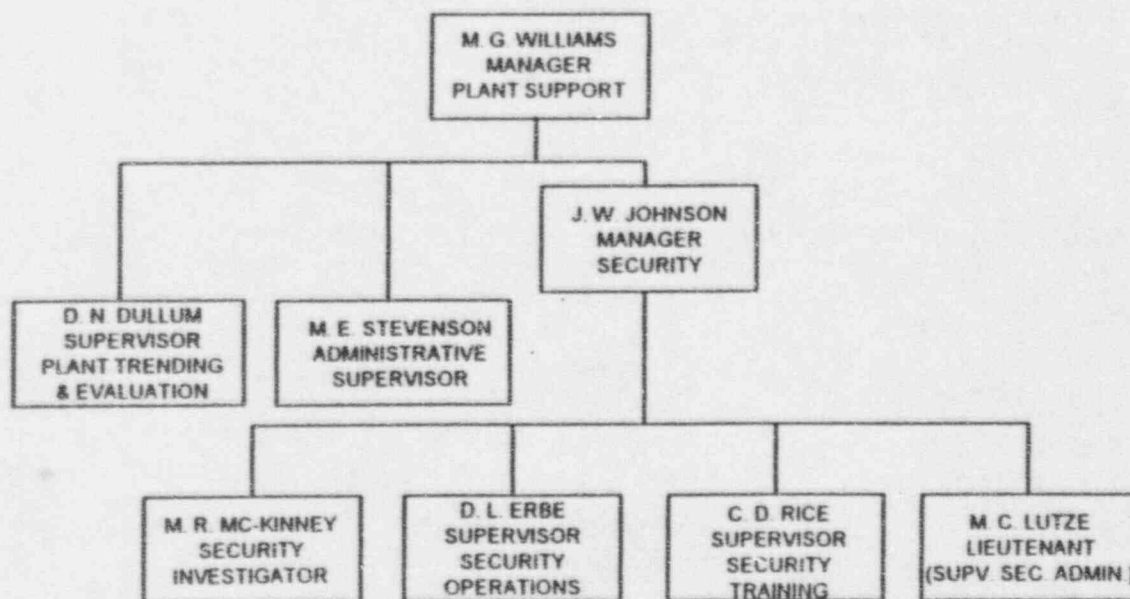
ORGANIZATION CHART E4  
REVISION 2 DATE 2/93



# WOLF CREEK

NUCLEAR OPERATING CORPORATION

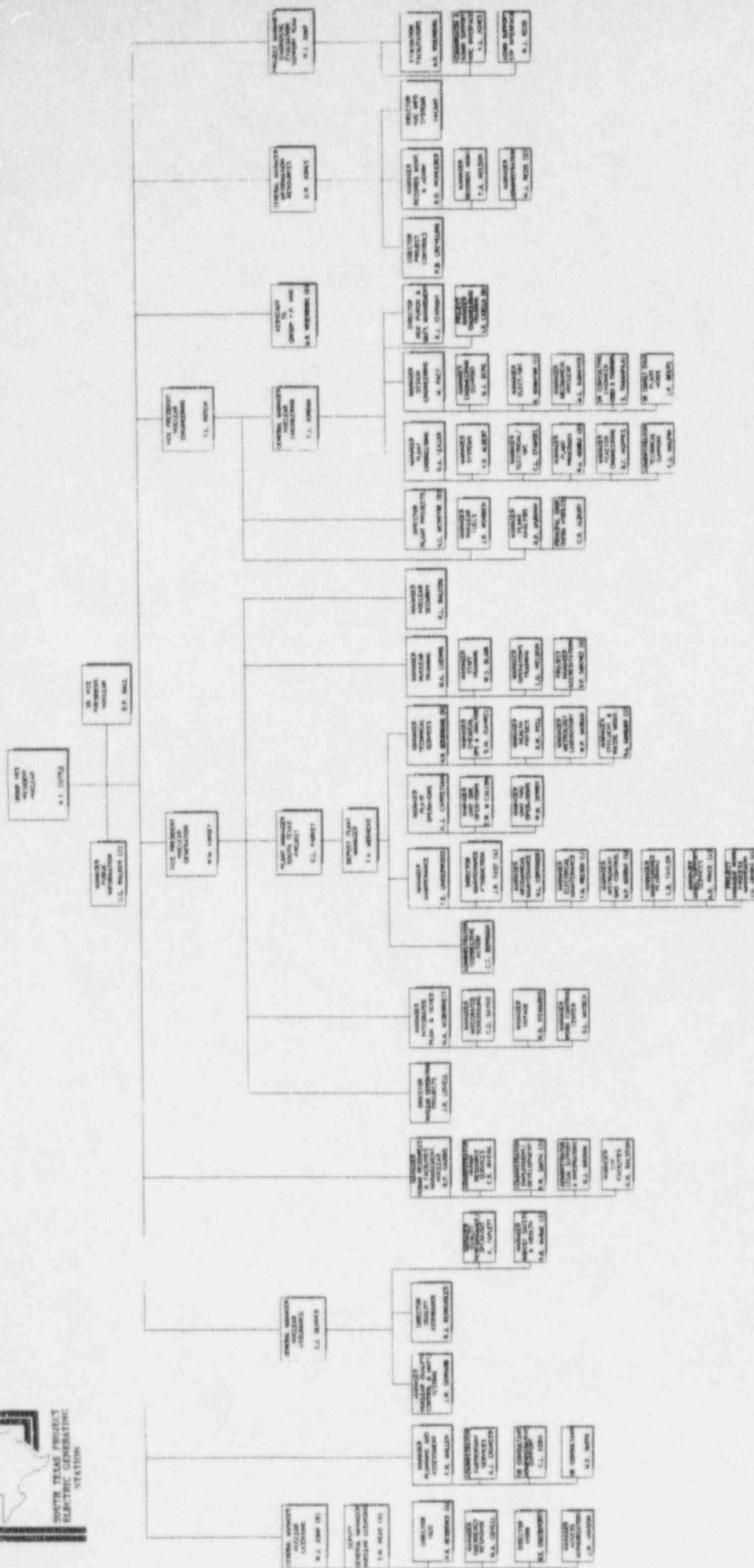
ORGANIZATION CHART E5  
REVISION 2 DATE 2/93







# NUCLEAR GROUP ORGANIZATION



*R. P. James*

(1) CHIEF  
(2) NUCLEAR  
(3) CHIEF  
(4) CHIEF

1. Introduce Self: Name/Region/job/background
2. Provide some background explaining the importance of the course. A few suggestions are:

The nature and depth of inspections have changed over the two decades that we have had NRC inspections. One thing that hasn't changed is the fact that inspectors who prepare well inspect better and have more important findings.

Provide an example from your personnel experience where good planning was an important factor in a successful inspection or,

discuss a particularly good inspector you know and link his/her success to planning.

3. Explain that you will review the main points of the chapter using view graphs. Explain that the use of view graphs is necessary but will be limited to one hour and then you will be presenting real life examples and exercises.
4. Go to the view graphs. Present VG-1 through VG-14

After VG-15, Risk based inspection guides (RIGS), show a transparency copy of some RIG cover pages, e.g. NUREG/CR-5832 and NUREG/CR-5766

Present VG-16 through VG-28

.....YOU SHOULD BE AT A ONE HOUR BREAK POINT HERE.....

5. Present the "generic inspection planner", the "generic team inspection planner", and "the typical inspection planner" from the chapter text examples 7-1, 7-2, and 7-3. Either make transparency copies from the text or use VG-29, -30, and -31.

These examples from the chapter text are not excellent examples of good inspection plans in that they are general in nature and don't structure the inspection as do the examples in the exercise. The new inspectors generally want examples of "how to do it", and "what a good plan looks like" along with "what planning to do".

Show view graphs made from IP 87100, Appendix B, pages B-1, B-2, and B-3. This is an example of a materials inspection plan/field notes.

Show VG-32, the "detailed inspection plan for Perry." This is in the text as the example of a detailed plan. This lesson plan includes additional detailed plans which were actual inspection plans developed in Region V. Use these actual plans, or any other good actual examples you may have, in your exercises with the students.

6. EXERCISE: DEVELOP AN INSPECTION PLAN WITH THE STUDENTS

Do a technical type first, the TI for service water, and limit the exercise to the operations portion.

Pass out TI 2515/115 Rev 1 pgs 1,3,4. Also display view graphs of the same pages. Go over the two key sections: Objectives and Requirements. Highlight the action words to bring out the actions required by the inspector. (e.g. "Perform - system walkdown") Have the students collectively review what the operations inspector is supposed to do. Give them a few minutes.

Note that the operations inspector has a pretty tall order to fill.

Ask the students to guess how much time would be required for this operations inspection. Discuss how many people and how much time. (Answer: one inspector, two weeks)

Ask the students:

What preparation would you do? (List answers on the blackboard) Some of the right answers are:

- read the generic letter and the response
- read other sites inspection reports on this service water team inspection
- read the FSAR and the site's systems training manual
- talk to team leader, resident, section head
- read some procedures
- arrange and schedule activities

Ask the students what inspection activities they would plan.

(Go down TI items one at a time)

Make a list of the responses on the blackboard again

When interest wanes, pass out the plan that was actually used-"OPERATIONS AGENDA- P. NARBUT" and here it is:

OPERATIONS ADGENA- P. NARBUT

- 2/2/93, 0800 : Perform detail system walkdown with a licensed plant operator. This includes piping, electrical, and instrumentation. (8 hrs)
- 2/3/93, 0800: WPPSS to provide indepth briefing on procedures, (operating, abnormal, EOP's, alarm response) (2 hrs)
- 2/3/93 1100: Provide detail briefing of operator training for SWS, include training plan, discussion of mods, training manual updates. (2 hrs)
- 2/3/93 1400: Review operating logs with a control room supervisor.
- 2/4/93 0800: Review valve lineup program with Ops Manager. Specifically how often is VLU verified, how many verifiers, throttled valve, locked valves, post- maintenance alignment, etc. (2 hrs)
- 2/4/93 1100: Review pond level controls, M/U methods, options. (2 hrs)
- 2/5/93 0800: Walk through selected procedures with ops, verify performability (4 hrs )

The virtues of the plan are that the major areas of the TI are covered and the licensee personnel can be scheduled ahead of time to be available for the reviews. It is time efficient.

Note to the students that the above plan did not cover two full weeks. Elicit their thoughts on why this is a wise thing to do. (Answer: to allow time to develop findings)

The results of the plan were productive and identified meaningful issues. See inspection report 50-397/93-201 for the results.

7. EXERCISE 2: Develop another inspection plan

Second example-IP 35702, QA Effectiveness

a. Pass out copies of 35702 (assume one individual is performing the inspection). On a view graph copy, highlight the objectives and requirements. This helps the students focus on the obvious (to you and me), "what should be done".

b. Again discuss and list the possible preparations

c. Again discuss and list inspection ideas to accomplish this IP

8. Pass out the actual inspection plan used.

Here it is:



INSPECTION PLAN  
Revision 6/19/93

Site: Palo Verde

Dates: June 7-11, 21-25, 1993

Inspector: P. Narbut

Inspection Objectives:

1. Partially perform Inspection Procedure 35702, INSPECTION OF QUALITY VERIFICATION FUNCTION. I will utilize the areas of service water and Steam Generator tube inspection as the sample activities to assess the effectiveness of the licensee's QA organization.
2. Interface with the two Russian Inspector groups observing our activities during the two weeks.

DETAIL PLAN

FIRST WEEK

- 6/7 1300 Arrive at site, meet with Russian Team A, discuss weeks plans
- 1400 Entrance interview followed by a meeting with the licensee, to review SP and ECW system design and operation. Review licensee actions taken for Generic Letter 89-13. Review system problems with the system engineer.
- 1500 Meet with QA. Review all QA and QC overview activities for SP and ESW (and GL 89-13) and SG tube inspection. Review QA audit results, CAR's and significant surveillance findings for these areas. Sample about two years worth of effort.
- 6/8 0800 Commence a detailed walkdown of Unit 1 spray pond and Essential Cooling Water system with the system engineer.
- 1300 Review a one year (1992) sample of the following for ESW and SG tube problems, determine if problems appear to have been effectively dealt with.
- PRB minutes
  - LER's
  - NCR's
  - CAR's
  - Operability determinations
  - Completed Maintenance Work Requests
- 6/9 0800 Continue record review and identify several (three or four) existing important problems. For these problems, assess and draw



conclusions on why the QA organizations were not effective in identifying the issues or their precursors or root causes. Examine whether quality verification activities were:

- Planned adequately
- Provided qualified people
- Conducted in depth examinations
- Provided effective corrective action
- Reported findings effectively to proper levels of management
- Monitored for change after corrective action

This will be accomplished by interviewing the QA personnel involved, reviewing the records of the verification activities, and examining personnel qualifications.

6/10 0800 Continue

6/11 1100 1st Week Exit

#### SECOND WEEK

6/21 1300 Arrive at site, meet with Russian Team B, discuss weeks plans and results from the first week

1400 Perform walk down of Spray Pond and Essential Service Water system and emphasize areas of interest from first weeks activities for the Russians.

6/22 0800 Continue inspection. C. Myers and M. Payne added to the inspection. Mike to look at Surveillance test problems. Mike is also to follow up a QA audit finding on SP flow set point change which operator's were not aware of. Chris to look at NDE and MOV problems and QAM's verification of IN 91-67 for SG tube plugging (and the QA footprints). Paul to complete the deviation background details on GL 89-13 commitments and look at EW Hx tube plugging. What caused the cracking, is QA driving a root cause. Examine selected QC reports coating repair, Hx welding repair, and tube plugging.

6/23 0800 Continue inspection

6/24 0800 Continue inspection

6/25 0800 Exit interview