

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
ATOMIC SAFETY AND LICENSING BOARD

In the Matter of	:	
	:	
Georgia Power Company,	:	
et al.,	:	
	:	
(Vogtle Electric	:	DOCKET NO. 50-424-OLA
Generating Plant,	:	50-425-OLA
Units 1 and 2)	:	ASLEP NO. 90-617-03-OLA

AFFIDAVIT OF CHARLES MEYER
IN SUPPORT OF APPLICANTS' RESPONSE TO
THE BOARD'S MEMORANDUM AND ORDER OF JANUARY 22, 1991

I, Charles Meyer, having first been duly sworn, hereby
depone and state as follows:

1. I am currently employed by the Georgia Power Company
as an Operations Superintendent-Support at the Vogtle
Electric Generating Plant, Units 1 and 2 ("VEGP"). My office
is located at the Plant near Augusta, Georgia, and I am
responsible for assuring the completion of training of
licensed operators, plant equipment operators and radwaste
operators, supervision for Operations Engineering, Building
and Grounds, the Operations Department budget, and daily
shift manning. The phrase "shift manning" refers to the
assignment of the appropriate number of employees for the
various operator positions to permit the safe and efficient
day-to-day operations of the VEGP.

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Q PDR

2. I have worked in the commercial nuclear power industry since 1972, when I was employed by Consolidated Edison at the Indian Point Nuclear Plant. Prior to 1972, I was enlisted in the United States Navy (from November, 1963 until May, 1971) and served as a Machinist's Mate and Engineering Watch Supervisor on the fast attack submarine Dace and the fleet ballistic missile submarine Nathan Hale. In brief, I was licensed as a Senior Reactor Operator on Indian Point 2 and Indian Point 3, worked for approximately one year as an employee of Sargent & Lundy (1978-79) in support of the planned start-up of the Zimmer nuclear facility, then worked as a Shift Supervisor and Training Supervisor as an employee of Public Service Indiana from 1979 until January, 1984 at the Marble Hill nuclear plant. Since April, 1984 I have been responsible as a Georgia Power employee for the same functions which I currently perform, except for the period June, 1989 through December, 1990, when I went through Senior Reactor Operator (SRO) school at the VEGP. I was SRO licensed on Vogtle Units 1 and 2 on January 11, 1991.

3. I understand that this Licensing Board has asked "what are the normal shift-manning requirements for operators at the facility?" The January 11, 1990 Affidavit of Richard P. Correia, at pages 8 and 9, gives a partial answer

to this question. Table 6.2-1 of the VEGP Technical Specifications, referred to by Mr. Correia, places a regulatory requirement on Georgia Power for a regulatory minimum of licensed Senior Reactor Operators, licensed Reactor Operators and non-licensed operators (commonly referred to as plant equipment operators or "PEOs"). While Mr. Correia's Affidavit correctly states that the Technical Specifications require a minimum of three non-licensed operators and that two PEOs are assigned to the fire brigade for any shift, the Affidavit incorrectly concludes that only one PEO might be available to respond to control room operator instructions.

4. The Technical Specifications do set forth the minimum shift manning for PEOs, but actual manning of each shift is determined by VEGP practice and procedure, not Technical Specification requirements. Mr. Correia's Affidavit refers generally to these practices. As I view it, and as a determination of shift manning has been practiced since 1984, the efficient operation of the plant in accordance with regulatory standards requires more than three PEOs. In other words, the Technical Specification numbers do not represent the "minimums" assigned to shifts. VEGP Procedure No. 10003-3 (Rev. 11 at p. 4), Attachment A, sets forth a "minimum shift manning" which basically reproduces the Technical

Specification requirements. The further VEGP procedural requirements are contained in the "Normal Shift Manning" table on this page and consist of a minimum of three SROs (the On-shift Operations Supervisor and the two Unit Shift Supervisors) and four licensed Reactor Operators (for each Unit, one Reactor Operator and a licensed Balance of Plant Reactor Operator). A total of eight (8) non-licensed operators per shift (i.e., PEOs consisting of two Auxiliary Building Operators (AO), two Turbine Building Operators (TO), two Outside Area Operators (OAO), and two Control Building Operators (CBO)) more than fulfill the Technical Specification requirements and constitute minimum, normal shift manning. Each of these PEOs is trained and qualified to operate and monitor the diesel generators. Two radwaste operators (one per Unit) complete the minimum "normal shift manning" dictated by these procedures. Each radwaste operator (RWO) either is or has been a qualified non-licensed operator (i.e., PEO). Thus, a total of eight non-licensed operators, complemented by two RWOs, if necessary, are available at a minimum for assignment by the control room operators to respond to off-normal events. The OAO plant equipment operator is the non-licensed operator responsible for the diesel generators under routine operations. The OAO for a particular Unit would be dispatched to the diesel

generators, and the OAO from the second Unit would serve as a backup. Therefore, even if two of the PEOs had to respond to a fire coincident with a start of the diesel generators, procedures provide for sufficient qualified personnel to still be available for dispatch.

5. VEGP 10003-C, in its "Normal Shift Manning" table, does not proceduralize several other qualified licensed and non-licensed operators normally assigned to a shift under present practice. First, two SROs in addition to those listed in the Normal Shift Manning table are routinely assigned to each shift (one SRO performs a "clearance and tagging" function, while the other conducts rounds of the plant). In the event of an off-normal situation, both of these SROs would respond to control room instructions. Also, three additional licensed Reactor Operators routinely are assigned each shift (two balance of plant Reactor Operators and one "extra" Reactor Operator assigned to the control room). Each of these ROs is qualified to operate and monitor the diesel generators.

Attachment B, entitled "Week At A Glance" is an example of the tracking document used by me to assure routine shift manning. This example sets out the A, B, C, D and E shifts for the week of February 16, 1991. As can be observed by reviewing this document, five (5) SROs, five (5) ROs, a

minimum of ten (10) non-licensed operators (PEOs) and three (3) RWOs are assigned each shift. During the week of February 16, 1991, both Units were scheduled for normal, steady state operation. These assignments are representative of actual shift manning at the VEGP.

6. Procedural requirements, as well as routine staffing practices, provide high assurance that qualified operators are available for dispatch by the control room upon the emergency start of diesel generators.

The foregoing is true and correct to the best of my knowledge and belief.

Charles Meyer
Charles Meyer

Sworn to and subscribed
before me this 14th day
of March, 1991.

Nancy J. Fleming
Notary Public

Notary Public, State of South Carolina
My Commission Expires March 22, 1993

ATTACHMENT A

TABLE 1

MINIMUM SHIFT MANNING

POSITION		NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION		
		BOTH UNITS IN MODE 1, 2, 3, or 4	BOTH UNITS IN MODE 5 or 6 OR DEFUELED	ONE UNIT IN MODE 1, 2, 3, or 4 AND ONE UNIT IN MODE 5 or 6 or DEFUELED
OSOS	1		1	1
SRO	1		none**	1
RO	3		2	3
NLO	3		3	3
STA	1*		none	1*

NORMAL SHIFT MANNING

UNIT 1	COMMON	UNIT 2
	OSOS	
USS	STA*	USS
RO	SSS	RO
BOP		BOP
AO		AO
TO		TO
OAO		OAO
CBO		CBO
RWO		RWO
Extra Operators		

- OSOS - On-Shift Operations Supervisor with a valid Senior Reactor Operator's (SRO) license.
- SRO - USS - Unit Shift Supervisor with a valid SRO license.
- SSS - Support Shift Supervisor.
- RO - RO - Reactor Operator with a valid RO license.
- BOP - Balance of Plant Operator with a valid RO license.
- NLO - AO, TO, OAO, CBO, RWO - Non Licensed Operators.
- STA - Shift Technical Advisor

* The STA is not required if the OSOS or an SS meets the qualification requirements for an STA.

**At lease one licensed SRO or SRO limited to Fuel Handling who has no other concurrent responsibilities must be present during CORE ALTERATIONS on either unit.

WEEK AT A GLANCE
WEEK OF 02/16/91 THROUGH 02/22/91

ATTACHMENT B

IN TRAINING
REQUAL, BADGE AND FIRE TRAINING ON SCHEDULE

ON VACATION
PARKER, W
COLLINS, M

WAINWRIGHT

EVANS, W

OTHER
N/A

WEEK LOOK AHEAD
WEEK OF 02/23/91 THROUGH 03/01/91

ON VACATION

OTHER
N/A

LEGEND

V IS VACATION
T IS TRAINING
t IS A TRAINING DAY WITH NO TRAINING SCHEDULED
B IS BADGE TRAINING
G IS NATIONAL GUARD
H IS DEFERRED HOLIDAY
R IS RE-SCHEDULE OR OVERTIME AS NOTIFIED
f IS FUEL MOVEMENT
F IS FIRE BRIGADE TRAINING

XC: JBB CFM WLB JDH OSOS MAG EJK NND PCC SC THEJ JWD JCR WEH
HEJ JPC GDW WORK PLANNING, 3RD FLOOR

02/15/51

NAME	TITLE	SHIFT	S	S	M	T	W	T	F
=====									
SRO {	HOPKINS, J	SS	A	D	D	D	-	-	-
	BARGERON WL	USS	A	D	D	D	-	-	-
	LADD, C.	USS	A	D	D	D	-	-	-
	ACREE J	USS	A	D	D	D	-	-	-
	BROWN, R	USS	A	D	D	D	-	-	-
	RHULAND, JE	FPT	A	D	D	D	-	-	-
	JENKINS, P	CLERK	A	D	D	D	-	-	-
RO {	HUMPHREY PA	PO	A	D	D	D	-	-	-
	SMITH RP	PO	A	D	D	D	-	-	-
	DRAWDY, K	PO	A	D	D	D	-	-	-
	OUELLETTE GA	PO	A	D	D	D	-	-	-
	WHITE PM	APD	A	D	D	D	-	-	-
	SHEFFIELD, G	PEO	A	D	D	D	-	-	-
	POWERS, C	PEO	X	D	D	D	-	-	-
	MCDANIEL, R	PEO	A	D	D	D	-	-	-
	GRANT, C	PEO	A	D	D	D	-	-	-
	WHITMAN, S	PEO	A	D	D	D	-	-	-
	BAREFIELD, M	PEO	A	D	D	D	D	-	-
	CLIFTON, J	PEO	A	D	D	D	-	D	D
	MYLER, J	PEO	A	D	D	D	-	-	-
	KAISER, S	PEO	A	D	D	D	-	-	-
	WALDEN, T	PEO	A	D	D	D	-	-	-
FORTNEY, A	RWO	A	D	D	D	-	-	-	
THORNTON, R	RWO	A	D	D	D	-	-	-	
KIGHT, C	RWC	A	D	D	D	-	-	D	
=====									
HARGIS, TS	SS	B	-	-	-	D	D	D	D
SNIDER RB	USS	B	-	-	-	D	D	D	D
DIEHL W	USS	B	-	-	-	D	D	D	D
VINEYARD, D.	USS	B	-	-	-	D	D	D	D
STUHAAN, C	USS	B	-	-	-	D	D	D	D
PERKINS, ME	FPT	B	-	-	-	D	D	D	D
CLOUD, A.	CLERK	B	-	-	-	D	D	D	D
LEWIS ML	PO	B	-	-	-	D	D	D	D
JOHNS KA	PO	B	-	-	-	D	D	D	D
HOWARD FW	PO	B	-	-	T	T	T	T	-
DURRENCE, GJ	PO	B	-	-	-	D	D	D	D
NIX RT	APD	B	-	-	-	D	D	D	D
NIX, H	PEO	B	-	-	-	D	D	D	D
MORRIS, T	PEO	B	-	-	-	T	T	T	D
GANDY, D	PEO	B	-	-	-	D	D	D	D
LEWIS, W	PEO	B	-	-	-	D	D	D	D
MCBRIDE, T	PEO	B	-	-	-	D	D	D	D
MORTON, R	PEO	B	-	-	-	D	D	D	D
SHARKEY, J	PEO	B	-	-	-	D	D	D	D
SONNEDECKER, G	PEO	B	-	-	-	D	D	D	D
WEAVER, S	PEO	B	-	-	-	D	D	D	D
THOMPSON, R	PEO	B	-	-	-	D	D	D	D
PARKER, W	RWO	B	-	-	-	V	V	V	V
HARPER, W	RWO	B	-	-	-	D	D	D	D
MAHONEY, J	RWO	B	-	-	X	X	X	X	X
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02/16/01

NAME	TITLE	SHIFT	S	S	M	T	W	T	F
DUNN WR	SS	C	N	N	N	-	-	-	-
THORNTON EM	USS	C	N	N	N	-	-	-	-
TYNAN, T	USS	C	N	N	N	-	-	-	-
STEPHENS WP	USS	C	N	N	N	-	-	-	-
WHITTEMORE BD	USS	C	N	N	N	-	-	-	-
JONES, RA	FPT	C	N	N	N	-	-	-	-
LANE, L.	CLERK	C	N	N	N	-	-	-	-
JENKINS DR	PO	C	N	N	N	-	-	-	-
WAINRIGHT GC	PO	C	N	N	V	-	-	-	-
MATHESON BB	PO	C	N	N	N	-	-	-	-
SALTER, C	PO	C	N	N	N	-	-	-	-
EVANS WB	APD	C	N	N	V	-	-	-	-
CRABB, R	PEO	C	N	N	N	-	-	-	-
COLLINS, M	PEO	C	V	N	N	-	-	-	-
KEADLE, R	PEO	C	N	N	N	-	-	-	-
JENKINS, C	PEO	C	N	N	N	-	-	-	-
BOUCHARD, R	PEO	C	N	N	N	-	-	-	-
QUICK, K	PEO	C	N	N	N	-	-	-	-
MANLEY, L	PEO	C	N	N	N	-	-	-	-
NEWSOME, M	PEO	C	N	N	N	-	-	-	-
WATERS, F	PEO	C	H	N	N	-	-	-	-
COBB, J	PEO	C	N	N	N	-	-	-	-
KAY, ML	RWO	C	N	N	N	-	-	-	-
THIGPEN, M	RWO	C	N	N	N	-	-	-	-
ASKEW, M	RWO	C	N	N	N	-	-	-	-
WILLIAMS CH	SS	D	-	-	T	T	T	T	-
BOWLES JE	USS	D	-	-	T	T	T	T	-
POPE K	USS	D	-	-	T	T	T	T	-
ALLISON, S	USS	D	-	-	T	T	T	T	-
ECKERT, C	USS	D	-	-	T	T	T	T	-
KWOLEK, J.	FPT	D	-	-	H	t	t	t	-
BLACKBURN, H.	CLERK	D	-	-	t	t	t	t	-
BLALOCK AL	PO	D	-	-	T	T	T	T	-
HARRIS T	PO	D	-	-	T	T	T	T	-
ROWLAND R	PO	D	-	-	T	T	T	T	-
MANEY W	PO	D	-	-	T	T	T	T	-
SAXON GM	APD	D	-	-	T	T	T	T	-
MOXLEY, G	PEO	D	-	-	t	t	t	F	-
PRUITT, S	PEO	D	-	-	t	T	T	TF	-
JACKSON, J	PEO	D	-	-	t	t	t	F	-
WALKER, M	PEO	D	-	-	t	t	t	F	-
HUTTON, C	PEO	D	-	-	t	t	t	X	-
BRANTLEY, D	PEO	D	-	-	t	t	t	F	-
HUNT, P	PEO	D	-	-	t	T	T	TF	-
SMITH, R III	PEO	D	-	-	t	t	t	F	-
HAWES, D	PEO	D	-	-	t	t	t	F	-
BROWN, S	PEO	D	-	-	t	T	T	TF	-
ADAMS, L	PEO	D	-	-	t	t	t	F	-
KLUTTZ, P	RWO	D	-	-	t	t	t	D	-
GRAHAM, N	RWO	D	-	-	t	t	t	t	-
SOWELL, D	RWO	D	-	-	t	D	D	T	-

02/16/91

NAME	TITLE	SHIFT	S	S	M	T	W	T	F
CARTER BD	SS	E	-	-	-	N	N	N	N
MIDDLEBROOKS KD	USS	E	-	-	-	N	N	N	N
POLITO TA	USS	E	-	-	-	N	N	N	N
DOUGLAS SM	USS	E	-	-	-	N	N	N	N
WHITE RS	USS	E	-	-	-	N	N	N	N
WILLIAMS, HG	FPT	E	-	-	-	N	N	N	N
ANDERSON, A.	CLERK	E	-	-	-	N	N	N	N
SHYNN, ML	PO	E	-	-	-	N	N	N	N
SHUMAN H	PO	E	-	-	-	N	N	N	N
SWEAT AL	PO	E	-	-	-	N	N	N	N
OVERBY L	PO	E	-	-	-	N	N	N	N
JOHNSON RV	PO	E	-	-	-	N	N	N	N
WILLIAMS, R	PEO	E	-	-	-	N	N	N	N
ANDERSON, R	PEO	E	-	-	-	N	N	N	N
WOOD, LL	PEO	E	-	-	-	N	N	N	N
DELOACH, J	PEO	E	N	-	-	N	N	N	N
PROCTOR, S	PEO	E	-	-	-	N	N	N	N
TOLBERT, S	PEO	E	N	-	-	N	N	N	N
BEARD, C	PEO	E	-	-	-	N	N	N	N
KESLER, B	PEO	E	-	-	-	N	N	N	N
SAXON, GR	PEO	E	-	-	-	N	N	N	N
JACKSON, M	PEO	E	-	-	-	N	N	N	N
MULLING, C	PEO	E	-	-	-	N	N	N	N
WILCOX, R	RWO	E	-	-	-	N	N	N	N
CLINE, G	RWO	E	-	-	-	N	N	N	N
JOSEY, JW.	RWO	E	-	-	-	N	N	N	N

BEASLEY, B	MANG	X	-	-	X	X	X	X	X
MEYER CF	SUPT	X	-	-	T	T	T	T	-
SCHWEISTER WL	SUPT	X	-	-	X	X	X	X	X
GASSER JT	SUPT	X	-	-	T	T	T	T	-
LEE, G.	OS/ENG	X	-	-	X	X	X	X	X
WILLIAMS JD	SS	X	-	-	T	T	T	T	-
KOZINSKY EJ	SS	X	-	-	X	X	X	X	X
HART SC	USS	X	-	-	X	F	X	X	X
ROBINSON JC	USS	X	-	-	X	F	X	X	X

ADMIN

ATKINSON, M	FPT	X	-	-	X	X	X	X	X
VANNIER LP	PO	X	-	-	X	X	X	X	X
DYER SN	PO	X	-	-	X	X	X	X	X
BROWN, EH	PO	X	-	-	N	-	X	X	X

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02/16/91

NAME	TITLE	SHIFT	S	S	M	T	W	T	F
POST, R	PEO	A	-	-	X	X	X	X	X
WHITE, B	PEO	X	-	-	X	X	X	X	X
MIMS, EL	PEO	X	-	-	X	X	X	X	X
GOODRUM, J	PEO	X	-	-	X	X	X	X	X
HUTCHESON, W	RWO	X	-	-	X	D	D	D	D
JEWBRE, N	CLERK,	X	-	-	8	8	8	8	8
JOHNSON, V	CLERK,	X	-	-	8	8	8	8	8
JONES, T	CLERK	X	-	-	8	8	8	8	8

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IN SCHOOL

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SLIVKA M	USS	S	-	-	H	O	T	L.5
DUFFIELD BM	APD	S	-	-	H	O	T	L.5
QUICK MJ	APD	S	-	-	H	O	T	L.5
REECE, R.	APD	S	-	-	H	O	T	L.5
SAXON TW	APD	S	-	-	H	O	T	L.5
MASON FL	APD	S	-	-	H	O	T	L.5
MITCHELL, W	APD	S	-	-	H	O	T	L.5
MOORE, R	APD	S	-	-	H	O	T	L.5
DAVIS, T	APD	S	-	-	H	O	T	L.5
BRACK, W	APD	S	-	-	H	O	T	L.5
PURVIS, C	APD	S	-	-	H	O	T	L.5
HENRY, M	APD	S	-	-	H	O	T	L.5
JUNTUNEN, J	APD	S	-	-	H	O	T	L.5
MARTINEZ, B	APD	S	-	-	H	O	T	L.5
CHANCE, R	APD	S	-	-	H	O	T	L.5
AUFDENKAMPE, J	USS	S	-	-	H	O	T	L.6
COTTY, R	USS	S	-	-	H	O	T	L.6
FOLKER, R	USS	S	-	-	H	O	T	L.6
FREDERICK, G	USS	S	-	-	H	O	T	L.6
GARLINGTON, D	USS	S	-	-	H	O	T	L.6
JAQUES, J	USS	S	-	-	H	O	T	L.6
KAPLAN, B	USS	S	-	-	H	O	T	L.6
MCCARY, D	USS	S	-	-	H	O	T	L.6
MOORE, W	USS	S	-	-	H	O	T	L.6
SAMMONS, R	USS	S	-	-	H	O	T	L.6
SCHREIBER, D	USS	S	-	-	H	O	T	L.6
STANLEY, J	USS	S	-	-	H	O	T	L.6
YOUNG, M	USS	S	-	-	H	O	T	L.6
WIMBERLY, M.K.	PEO	S	-	-	**OUTSIDE**			
DELAISLE, R.	PEO	S	-	-	**OUTSIDE**			
HENRY, MD	PEO	S	-	-	**OUTSIDE**			
COLLINS, R.	PEO	S	-	-	**OUTSIDE**			
JONES, K.	PEO	S	-	-	**OUTSIDE**			
MCCUMBERS, K.	PEO	S	-	-	**OUTSIDE**			
EAVES EP	RWO	S	-	-	RWO BASIC			
GATLIFF, J	RWO	S	-	-	RWO BASIC			
WOOD, G	RWO	S	-	-	RWO BASIC			

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