05-94-90

W.7 Kitchans

Vogtie Electric Generating Plant

NUCLEAR OPERATIONS

A

Georgia Power

Procedure No 00350-C

Revision No.

19

Page No.

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12/27/89

Unit COMMON

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WORK REQUEST PROGRAM

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## 1.0 PURPOSE

This procedure establishes administrative controls for maintenance activities at Vogtle Electric Generating Plant (VEGP). It provides for identification, control, and documentation of maintenance activities.

Procedure 29402-C, "WPG Work Request Processing" will be used in conjunction with this procedure to complete define the processing of a work order.

# 2.0 DEFINITIONS

## 2.1 WORK PLANNING GROUP (WPG)

A group of assigned individuals in the Planning, Scheduling and Work Control section of the Outages and Planning Department that plan, develop, prioritize, schedule, review, evaluate, and maintain history of repairs for Maintenance Work Orders (MWO).

## 2.2 PREVENTIVE MAINTENANCE (PM)

Work tasks performed on a predetermined schedule, in accordance with Procedure 20015-C, "Preventive Maintenance", to maintain equipment reliability.

# 2.3 PREDICTIVE MAINTENANCE (MP)

Work tasks performed on equipment or components to predetermine failures by obtaining and trending historical data through preventive maintenance, oil analysis, MOVATS, vibration monitoring corrective work orders, etc.

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	1.11.1.		
2.4	PLANNED MAI		
	The second secon	maintenance, predictive tasks performed on equipment of the second secon	e maintenance and ipment components to
2.5	CORRECTIVE	MAINTENANCE	
		performed on systems or ms identified through p maintenance, surveillar r methods.	the second second second second second
2.6	WORK REQUES	T TAG (WRT)	
	flag equipme Supervisor	t tag used to identify plant equipment or coment in the field and to (SS)/On-Shift Operation of equipment problems	mponents, to properly
2.7	WORK ORDER	(WO)	
	When referen	nced in this procedure or SWO.	the step applies to
2.8	MAINTENANCE	WORK ORDER (MWO)	
	maintenance	ent used to perform an on plant equipment or k controls are identifications.	COMPONENT .
. 9	SUPPORT WORK	OPDER (SWO)	
	maintenance	ent used to request su hose activities encomp work order program. S vities are identified	assed in the
.10	SPECIAL INDI	CATORS	
	examples are	dentified in NPMIS equirements for applicable critical components (1 (TSPEC), Local Leak	e components. Some

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2.11	WALKDOWN S	HEET			
	SWO packag	generated form, attach to identify certain re ing. A planning tool to pecial requirements, et	outrements for MWO or		
2.12	EMERGENCY N	MAINTENANCE			
		essary to maintenant essary to maintain safe pabilities.	ce or repair activity e operation or		
2.13	URGENT MAIN	TENANCE			
	Operations	that is not as critabut in the opinion of Supervisor is critical be performed during the	the On-Shift		
2.14	CALIBRATION				
	Work tasks and/or inst within tole	performed to compare an ruments to a predetermi rances.	nd adjust equipment ined reference value,		
2.15	SURVEILLANCE	E			
	functioning	formed on a periodic ba at structures, systems, properly and should re le of fulfilling the in	and components are		
2.16	FUNCTIONAL T	TESTS			
	accordance w Functional t tests, ASME	of those steps necessary systems and components ith predetermined specests may include: Sur Section XI requirement ith Procedure 29401-C, onal Test".	function in ifications. veillance tests, ISI		

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2.17	INSPECTIONS		
	parts, appu	, observation or measure ance of materials, suppl rtenances, systems, pers processes or structures s.	lies, components,
2.18	MAINTENANCE	HISTORY	
	A written con a compone	hronological record of went from initial turnove	work tasks performed or to present.
2.19	SUPERVISOR		
	annone fuctor	Georgia Power Supervisi ding a cognizant individ 0801-C, "Control Of Onsi	ting an difficult to
2.20	CONTRACTOR MAINTENANCE		
	Maintenance selected acc	performed on the plant cording to Procedure 008	by personnel 01-C.
2.21	AUTHORIZED I	NSPECTOR	
	ASME Section	of an Authorized Inspectors for, and has been properties III Division 1 and ASM nservice Inspection.	Property and the property of the second second
2.22	SPECIAL REVI	EW	
	A review by	one of the following:	
	Technical Su	ion Engineer	

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2.21	FIRE PROTECTION	PROGRAM COMPONENT	
	Those plant com	ponents required by	VEGP FSAR 9.5.1 to n the viability of
2.22	CRITICAL COMPONE	ENTS	
	unless special of protection scheme trip if it itself	care is taken A	ystem, control, ich will cause a uni
3.0	RESPONSIBILITIES		
3.1	MANAGER MAINTENA	NCE	
	The Manager Main Program is effec	tenance ensures the	at the Maintenance as follows:
3.1.1	Policies, proced		
3.1.2	Work tasks are do with approved pro	ocumented and perfo	ormed in accordance
3.1.3	And Lifted Wire	temporary jumpers a Procedures 00306-C, Control" and 20429- Temporary Jumpers	"Temporary Jumper C, "Short Term And Lifted Wires".
3.1.4	Implementation of	f temporary modific	ations and hanging 0307-C. "Temporary
3.1.5	Disposition of pais performed and	arts/equipment remo documented.	ved from the plant
3.1.6	Condition Program	rements are establ 0254-C, "Plant Hou " and 20427-C, "Ma lousekeeping Contro	Interes

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3.1.7	An On-the-J	ob Training (OJT) Pro	ogram is developed and epartment.	
3.1.8	Mockups, wh	Mockups, when needed, are set up to hold work task exposures ALARA. Mockups are coordinated with Maniah		
3.1.9	平水 平利的 平面组织1	Section XI Repair as ted in accordance wit on XI Repair/Replaces	nd Replacement Program th Procedure 20100-C, ment Program".	
3.1.10	Ensure that	a preventive mainter and implemented in a 0015-C, "Preventive N	nance program is	
3.1.11	COLGULISHED	a predictive mainter and implemented in a 0016-C, "Predictive N	nance program is accordance with Maintenance Program".	
3.1.12	Nuclear Plan	nt Management Informs	ation System (NPMIS) is duled outage plans and reillance maintenance	
3.2	MANAGER OPE	RATIONS		
	The Manager Program is	Operations ensures t supported as follows:	hat the Maintenance	
3.2.1	conditions t	in accordance with a	ities are coordinated xisting plant s representative in the	
3.2.2	WRTs are pro	cessed during off-no intenance.	rmal working hours for	
3.2.3	System status is recorded during work tasks when required.			
3.2.4	Clearances a	re performed for wor	k tasks.	
3.2.5	existence of	ion (FP) Limiting Co statements are impl the Limiting Condit FP operability requ	TON PO REQUENCE	
3.2.6	Numbers are wires in acc	assigned for tempora	ry jumpers and lifted	

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3.2.7	Functional changed by	test requirements may be a qualified SS or OSOS.	assigned and/or	
3.2.8	All securit the Securit	All security-related work request are coordinated with the Security Department.		
3.2.9	Assigns a 'Representat plant opera	EGP licensed certified C ive to authorize work th tions.	perations Department at does not affect	
3.2.10	Ensures that	t Unit Shift Supervisor k on critical components	is cognizant of	
3.2.11	Maintenance	rations Engineering main ist and an updated list Engineering when any che inclusion into NPMIS.	10 numeridad be	
3.2.12	bermrrs wie	ombustible permits or ig issued, as required and has been evaluated.	nition source that the need for a	
3.3	MANAGER ENGI	NEERING SUPPORT (MES)		
	The MES ensu supported as	res that the Maintenanc follows:	e Program is	
3.3.1	WRTs are ini	tiated for Plant Modifi	cation Packages.	
3.3.2	Designated w Modification	ork task procedures are Packages.	provided for Plant	
3.3.3	Fire Protect compliced.	ion post-work reviews,	if applicable, are	
3.3.4	Shield plug completed if	and blockwall removal e	valuation is	
3.3.5	Scaffolding are complete scaffolding	pre-installation review d per approved plant procontrol.	s, if applicable, ocedures for	
3.3.6	Numbers are accordance with Modification	assigned for Temporary ! ith Procedure 00307-C.	Modifications in	

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3.3.7	Supervisor/I approval of painting in filtration of	Support performs review improvement work. Spouty Engineer complete work activities such areas that can offect harcoal beds.	pocifically, the HVAC es reviews and grants as welding and exhaust and
	The Work Pla	anning and Controls St Planning Department of Program is supported	uperintendent of the
3.4.1	Work orders issuing to m	receive all required maintenance.	reviews prior to
3.4.2	to starting	COULTOI ALEAS (K.A)	alth Physics for work usually 24 hours prior th Procedure 00930-C.
3.4.3	MWO packages	are assembled from W	VRT'S.
3.4.4	MWO packages	are reviewed upon co	ompletion.
3.4.5	Equipment hi	story records are mai	intained.
3.4.6	Meintenance	activities are tracke	d.
3.4.7	Maintenance	activities are accura	itely reported.
3.4.8		work tasks are adequa	
3.4.9	MWO packages criteria is	are evaluated to ens	ure that acceptance
3.4.10	Maintenance	rk schedules are es	tablished.
3.4.11	Clearances as	re initiated for MWO	packages.
3.4.12	Fire protect: work orders	on work evaluation in the qualified personne	s performed on all
3.4.13	Identify MWO trip possible	as critical componen special indicator i	t from the reactor n NPMIS.
3.4.14	Operations Wo	ork Planner assigns a ments.	ppropriate functional

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3.5	MANAGER PLAN	T TRAINING AND EMERGEN	CY PREPAREDNESS	
	The Manager ! ensures that follows:	Plant Training And Eme the Maintenance Progr	rgency Preparedness am is supported as	
3.5.1	The OJT Prog: Department.	ram is coordinated wit	h the Maintenance	
3.5.2	Adequate / tr ALARA as requ	raining is provided to	keep exposures	
3.5.3	requirements	ning Programs to meet established by the Ma and Planning Popartmen	intenance Department	
3.5.4	Training reco	ords are maintained.		
3.6	MANAGER HEALT	TH FHYSICS AND CHEMIST	RY	
	The Manager H Maintenance P	ealth Physics/Chemist rogram is supported a	r ensures that the s follows:	
3.6.1	ALARA reviews are performed on all Radiation Work Permit (RWP) requests per Procedure 00930-C, "Radiation And Contamination Control", and Procedure 00910-C, "VEGP ALARA Program".			
3.6.2	HP ourveys ar	e performed in a time	ly manner.	
3.6.3	RWPs are issued per Procedure 43007-C, "Issuance, Use And Control Of Radiation Work Permits" and that proper radiological controls are instituted per 00910-C.			
3.6.4	When contacte 4.1.23) Chemi	d regarding draining stry is responsible f	of systems (Section or:	
	a. Evaluati permitte	ng the effect the dra d effluent pathways.	ining will have on	
	b. Inspecti effectiv time per	ng the system to eval eness of the corrosio mits.	uate the n control program, if	
3.6.5	Provide for i	nitial reviews of MWO	's and SWO's.	

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3.7	MAINTENANCE	E ENGINEERING SUPERVISOR	
	The Mainter Maintenance	nance Engineering Superv Program is supported a	isor ensures that the
3.7.1	Predictive	maintenanc- program wor tracked, trended, and e	
3.7.2	Preventive Preventive to ensure t	maintenance program is or Predictive MWO's gen rain separation for equior to MWO generation.	maintained.
3.7.3	A welding p Procedure 2	rogram is maintained in 0110-C. "Weld Control P	accordance with rogram".
3.7.4	NPMIS equip	ment data base is maint n with the WPG is condu ditional fields for out	ained and periodic
3.7.5	ALSO, MERITA PERITURE T.I.	Section XI Repair and ted in accordance with ton XI Repair/Replacement	Drander 20100 a
3.8	QUALITY CON	TROL SUPERINTENDENT	
	The Quality Maintenance	Control Superintendent Program is verified as	ensures that the follows:
3.8.1	Inspections, accordance with Inspection F	examinations and tests with Procedure 00201-C, Program".	are performed in "Quality Control
3.8.2	MWOs are rev	viewed for quality requi	Lrements.
3.8.3		of work tasks is perform	
3.9	MANAGER OUTA	GES AND PLANNING	
	effectively	Outages and Planning er ed outage, and refuelir implement planning, sch program requirements as	ng activities

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3.9.1	Provides an sequence of implemental	nd approves for uf events prior to	se all out schedule	age planning distribution and
3,9,2	Work will be Administrate procedures.	e administrative	ly governe ng, and Ou	d by the Plant tages and Planning
3.9.3	Work plans, Nuclear Ope	procedures and rations QA Progr	practices am.	shall be under the
3.9.4		assigned are pa y the Modificati reviewed and app		
3.10	MODIFICATIO SUPERINTEND	NS AND OUTAGE SU	PPORT GROUI	P (MOSG)
	THE RESERVE AND ADDRESS OF THE PARTY AND ADDRE	perintendent is support activit; e, on request.	responsible ies and imp	e for certain plementing
4.0	INSTRUCTION	<u>s</u>		
4.1	WORK REQUES	T TAG INSTRUCTION	NS	
4.1.1	When conditions requiring maintenance are identified all plant personnel are responsible for completing a Work Request Tag (WRT). (See Figure 1 for Example)			
4.1.2	A WRT may be maintenance portions of	submitted by ar support by compl the WRT and deli ft Supervisor.	y individu	al requesting

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- When completing the WRT the initiator should give an accurate, concise and complete description of the problem, indications for investigative maintenance, failure description for corrective maintenance, or a summary of the modification/installation for design changes in the problem block. This narrative should provide a clear description without the need to resort to reference documents, i.e., RER's, FCR's, etc.
- If the WRT is to correct an item identified by a DC, NRC or QA Audit Finding or to address a commitment (regulatory or other) the initiator will indicate so by entering the identifying number in the problem block in addition to the problem description and attach a copy of the commitment, DC, etc. If the WRT was identified during the performance of a surveillance or an MWO, that document number will be referenced.
- 4.1.5 If the WRT is to implement a capital budget item, the general work order (GWO) number should be included in the problem block.
- 4.1.6 The initiator will complete the WRT through the "originator" line, attach the field copy to the component and deliver the WRT to the appropriate shift supervisor or WPG, as appropriate.

Non-corrective maintenance WRT's may be approved and processed by the WPG. (Examples are WRT's for DCP implementation, WRTs to perform planned activities to support outage preparation, etc). If processed by the WPG, the Operations Work Planning reviewer will complete the reviews and sign the OSOS/SS review block, in lieu of the actions required in section 4.1.7.

### NOTES

- a. WRT's will be hung for items identified as needing corrective maintenance in the field. Items that are not physically broken, leaking, missing, etc... do NOT require the field copy WRT to be hung. Example of this type may be a WRT for a DCP.
- b. WRT's will NOT be hung on equipment inside the containment.

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4.1.7	The Shift S	The Shift Supervisor will perform the following:			
4.1.7.1	Supervisor regulatory	Evaluate the WRT for operational deficiencies which require reportability. (The On-Shift Operations Supervisor (OSOS) will make immediate notification to regulatory agencies and ensure a Deficiency Card is initiated in accordance with Procedure 00150-C.).			
4.1.7.2	Evaluate th	e affect on plant opera y action as required.	tion and initiate		
4.1.7.3	determined	e WRT for completeness. inadequate or lacking is the initiator and/or on.	n information ha		
4.1.7.4		appropriate priority as	defined below:		
	X - Emergen	cy (Sec. 2.11)			
	U - Urgent	(Sec. 2.12)			
	reduct	- Personnel, Plant Equipment problem which conion within 72 hours. I icant impact on plant o	uld require a power tems with a		
	requir	LCO's with 7 day or les ements. Items which im ion/efficiency or that llances.	pact continued plant		
	operat	LCO's, other items affe ions/efficiency. Secur e Commitments.	cting plant ity, Fire Protection		
	4 - Items	affecting plant materia	l condition.		
	5 - Items	which may be repaired a	t any time.		
4.1.7.5	Indicate as	sociated LCO, Informati LCO numbers in spaces p	on LCO or Fire		

4.1.7.6 Indicate the appropriate mode restraint.

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### NOTE

The mode restraint evaluation must be made conservatively. If a WRT is written for a problem which would not render a component inoperable, it should still be coded as a restraint to the lowest mode for which that component could be required operable. This ensures a proper evaluation is performed on each WRT immediately prior to a mode change. (In-progress maintenance activities could render a component temporarily inoperable or completed activities could require performance of a functional test prior to a mode change.)

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- Indicate if the work may be performed at power or 4.1.7.7 during a unit outage. If outage, the highest mode in which the work may be performed should be indicated (i.e., I would indicate it is outage but may be performed in Mode 1 such as a MFWP outage WRT.)
- Indicate special conditions required to perform 4.1.7.8 maintenance by circling the appropriate 2 digit number on the back of the original tag.
- Approve the WRT by signing and dating the WRT 4.1.7.9 forwarding the original WRT to the Work Planning Group and a copy of the WRT to the Engineering Support Department for information.
- The Work Planning Group (WPG) will process the WRT in 4.1.8 accordance with 29402-C.

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4.1.9	as a maint	The WPG will determine if the WRT should be processed as a Maintenance Work Order (MWO) or a Support Work Order (SWO).		
		NOTE		
		Support Work Orders (SWO) generally work items that less planning and/or admit controls.	require	
4.1.10	initiated.	The following maintenance activities may be addressed without initiation of a Work Request Tag. If a WRT is initiated, it will be processed as a Support Work Order requiring minimal review prior to issuance.		
4.1.10.1	Replacement	Replacement of light bulbs, both indication and illumination bulbs.		
4.1.10.2	Emergency and exit lighting, plant lighting fixtures and field run non EE580 related cabling.			
4.1.10.3	contractor:	e work on non-plant opera s under a maintenance agr in accordance with Proced Administration".	reement contract	
4.1.10.4	Labor items cleanup, to	s (pumping out ditches or ransporting barrels, shor	r manholes, spill ring, cribbing, etc.	
4.1.10.5		tems on plant chart recor		
4.1.10.6		ystem Camera adjustments by the SNS.	and cleaning as	
		CAUTION		
		Prior to performing any stollowing (4.1.10.7 throw 4.1.10.24), notify the Unshift Supervisor. Notifies also required at the of each shift, unless the indicates otherwise.	vah nit ication start	

4.1.10.7 Installing and/or changing identification tags except for ASME Code plates and vendor name plates.

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- 4.1.10.8 Replacement of passive accessories, such as knobs, handles, latches (for non-seismic equipment), lens, covers (except for those required for Equipment Qualification), thumb screws, etc.
- 4.1.10.9 Tightening of packing on manually operated valves (Motor- and air-operated valve packing adjustments and repacking a valve require a WRT and MWO.)
- 4.1.10.10 Tightening of flanged leaks, fitting leaks, etc. on non-safety-related piping and/or tubing.
- 4.1.10.11 Instrument calibrations when required by approved plant procedures for instrument calibrations and/or adjustments when performed using approved plant procedures that require SS notification prior to and or completion of the work.

When performed during maintenance activities other than surveillances, all pertinent documentation shall be transmitted to Document Control and filed by procedure number.

- 4.1.10.12 Investigative-type work that assists in the determination of problem identification or description. Investigative work may include use of instruments (Fluke meters, VOM, etc.) but does not include component disassembly, lifted leads or other corrective-type maintenance.
- 4.1.10.13 Maintenance activities performed during the performance of approved plant surveillance procedures providing all the requirements of this procedure for the maintenance activity, such as QC review, Equipment Qualification, parts traceability, etc. are met.
- 4.1.10.14 Removal and reinstallation of threaded pipe caps or hose fittings downstream of drains, vents, etc.
- 4.1.10.15 Removal and reinstallation of blind flanges, gaskets, studs, and nuts on pipe downstream of drains and vents.

  (NON-Q SYSTEMS ONLY)
- 4.1.10.16 Performance of routine lubrication in accordance with Procedure 20411-C, "Control Of Lubricants".
- 4.1.10.17 Installation and removal of scaffolding in accordance with Procedures 20003-C, "Scaffold Construction And Control".

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- 4.1.10.18 Removal and reinstallation of insulation in accordance with Procedure 20002-C. "Control Of Insulation Removal And Installation".
- 4.1.10.19 Repairs on telecommunications equipment other than Security Communications equipment.
- 4.1.10.20 Adjustments of pump packing by qualified maintenance personnel (replacement of packing will require a WRT and MWO.)
- 4.1.10.21 Application of sealant to secondary equipment and piping to stop identified in-leakage.
- 4.1.10.22 Repairs to doors. (except fire doors)
- 4.1.10.23 Repair rework and adjustment of tooling that does not have a permanent plant tag number
- 4.1.10.24 Work on ancillary buildings such as the Service Building, Administration Building, etc.
- 4.1.11 Support Work Orders (SWO's) are required for the following:
- 4.1.11.1 Facility work such as painting, labeling, work on handrails, lighting systems, etc.
- 4.1.11.2 Spare parts rebuild.
- 4.1.11.3 Repairs to fire doors.
- 4.1.12 MWOs generated per 4.1.11 will be reviewed as required in accordance with 29402-C.

#### NOTE

Support Work Orders (SWO's) may or may not require all review signatures. The Work Planner may obtain or N/A any review as determined appropriate.

- Maintenance will be scheduled and planned so as not to compromise the safety of the plant. Planning will consider the possible safety and ALARA consequences of concurrent or sequential maintenance, testing or operating activities. Equipment required to be operable for the prevailing mode will be available, and maintenance will be performed in a manner such that license limits are not violated. Planning for maintenance will include evaluation of the use of special processes, equipment, and materials in performance of the task, including assessment of potential hazards to personnel and equipment.
- 4.1.14 Work orders which modify the plant configuration will be processed under the controls of procedure 00400-C "Plant Design Control".
- 4.1.15 The WPG will assign the MWO package to the Supervisor/Foreman of the responsible group for implementation of the work package. The MWO will be packaged in accordance with Procedure 29402-C, "WPG Work Request Processing".
- When personnel are ready to start work, the individual will go to the Control Room and obtain authorization to begin work from the applicable Shift Supervisor (SS), with the following exceptions:

#### NOTE

When investigative type WO work, not under a clearance, is continued beyond one shift the Unit Shift Supervisor shall be notified at the start of the new shift prior to continuing work, unless the USS indicates otherwise.

- 4.1.16.1 If a WO is security-related and DOES NOT require a clearance, the individual will go to the Supervisor Nuclear Security Captain (SNS-CPT) to obtain authorization to begin work. The SNS-CPT or designee, will sign the WO to authorize work to begin.
- 4.1.16.2 If a WO is security-related and DOES require a clearance, the individual will go to the Shift Supervisor (SS) who will initial and date the WO and authorize work to begin, in accordance with step 4.1.16.

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4.1.23	Section per	systems conta	systems, co	of water in ntact Chemistry . For Primary Section Personnel
4.1.24	The assigne	d work crew w	ri11:	
4.1.24.1		and/or proce	procedures dures liste	as required for d or referenced in
4.1.24.2	Verify clea	rance boundar	ies. Notifi during main	y Control Room when tenance activities.
4.1,24.3	Review the	RWP, receive 1 briefing (i d notify HP i	a pre-job on	
4.1.24.4	possible, t is not to p Hold Point personnel.	unless a waiv	a QC inspector has been	ned step(s). Work ction, witness or approved by QC
4.1.24.5	Observe safe practices.	e, efficient,	and profess	sional work
4.1.24.6	worked. Sy	rking on equipment of sure the constem draining with the HP/Ch	rrect equipm	and described to
4.1.24.7	observations	ns, inspection	ons, examina	of the malfunction. itions and the cause of the will be documente
4.1.24.8	Attach all a	pplicable doc	uments to t	he WO Package.

the work activity. Should additional space be required to properly document complex work performed, a Work Order Continuation Sheet (Figure 2) will be used. If more than one Continuation Sheet is used, each will be sequentially numbered (in upper-right corner).

Document, on the Work Order, all work performed during

4.1.24.9

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## NOTE

If the maintenance required for a particular work order involves more than one craw, each foreman/ supervisor will sign and date the WO, that their work is complete or as complete as possible (including specific steps of procedure completed) and has been reviewed and approved prior to the transfer of the WO to the next responsible crew.

- 4.1.24.10 Document the disposition of replaced equipment/parts and list both the old and new part numbers/serial numbers on the MWO.
- 4.1.24.11 If warehouse material was required to complete the work, a check mark will be placed in Block 28.

  Material/Equipment Request (MER) numbers will be recorded in the block. A copy of the MER will be attached to the Work Order (WO). Lot, reel, spool, heat, grade, part, serial numbers, etc., will be recorded on the WO or the attached MER. All material removed shall be documented on the work order with as much information on the item removed, as available.
- 4.1.24.12 The use of bulk materials, such as, thermal overloads, lugs, fittings, packing, etc., shall be controlled in accordance with Procedure 00352-C, "Control Of In-Process Materials", unless the quality and traceability of the material can be established by other means. The part number and MIR/MER number from the bulk material identification tag will be written on the WO.
- 4.1.25 If all the work required cannot be performed, the work foreman/supervisor will document, on the WO, why the work could not be completed and sign and date at the end of the description. Return the WO package to WPG for further evaluation and/or instructions.
  - a. The WPG will determine if the WO is to be revised due to a scope and/or intent change or if a new MWO is required.

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	with	revision is required, tiated and routed for rethe instructions for WO lure 29402-C, "WPG Work	eview in accordance
	c. The WC to he	will then be returned completed as required.	to the field for work
4.1.26	is necessar a new WO wi returned to changed sco WO is to be new or revi accordance	tenance activities on no mponents or safety-relat y to change the scope or ll be generated or the of the WPG for revision to pe or intent. WPG will generated or the origin sed original WO will be with all previous steps is issued, it will refe	r intent of the work, original will be encompass the determine if a new hal WO amended. The processed in
4.1.27	foreman, as maintenance contact the in Step 4.1 required.	tenance activities on no mponents, the MWO may be required, to accomplish If this is required, SS, NSSS, or Chemistry (16) to inform him that The foreman will clearly work on the WO.	the required the foreman should Foreman (as outlined
4.1.28	The job for	eman, upon completion of	work, will:
4.1.28.1	Review the and verify	applicable documentation that acceptance criteria been met if known.	for
4.1.28.2	POSTMY PYPITA I	any unsatisfactory work oted during the perform cumented on the WO.	results or mance of the work
4.1.28.3	Ensure that 29402-C.	ne WO is completed, as	applicable per
4.1.28.4	Inspect and level of cle	ensure the work area is anliness required for t	returned to the

4.1.28.5 Ensure the "Work Request Tag" has been removed from the equipment, and attach the WRT to the Work Order (WO)

PROCEDURE NO VEGP	00050 0	REVISION	PAGENO	
VEGE	00350-C	19		23 of 15
4.1.28.6	Sign and da	te the appropriate bloc	k of the V	VO after
	marked N/A.	HE GAL DIUCKS THAT NED	not applic	cable are

- a. Inspections are performed during and/or after the work to ensure the quality of the work and compliance with design. Inspections may be identified and performed by qualified individuals as appropriate.
- b. The results of all inspections performed will be documented. Further action based on results and the documentation will be part of the WO package. Such documentation may include:
  - (1) Quality Control Inspection Reports,
  - (2) Maintenance Procedure Technical Results.
  - (3) Instrument Control Calibrations, etc.
- 4.1.29 QC personnel will perform required inspections and verifications and document on the WJ where appropriate.

#### NOTE

If work was performed and inspection under a contractor's GPC a proved QA/QC Program, the contractor's QA representative will sign and date the WO where appropriate.

- When the review is complete, the WO package will be returned to the WPG where a functional or special test requirement will be assigned, if required, using Procedure 29401-C. "Maintenance Work Order Functional Tests" as a guideline. After the Functional test is assigned the WO will be forwarded to the appropriate department to perform the Functional test.
- 4.1.30.1 If the WO is sent to any department, other than Operations, for the completion of the functional test requirements, that department will complete the functional test in coordination with the SS, or Chemistry, as necessary.

PROCEDURE NO	REVISION	[PAGE NO
VEGP 0035		24 of 35
		01 27

- 4.1.30.2 If the functional test is acceptable, the person who performed the functional test will sign and date the WO and check the WO SAT and return the WO to WPG.
- 4.1.30.3 If not acceptable, indicate "UNSAT" on the WO and sign and date. State the reason for the UNSAT condition in the work performed section of the WO. Return the WO to the WPG for revision or generation of a new WRT and WO closure.

### NOTES

- a. The work can continue on an UNSAT WO by use of a revision. A WO is not closed until accepted by the SS, SSS, or SNS-CPT (as appropriate).
- b. Special tests on security systems will be performed by a Security Supervisor, or designes, to ensure regulatory requirements are maintained.
- 4.1.31 When the work task is complete, the WO package will be returned to the SS, SSS or SNS-CPT (as appropriate, see Step 4.1.16) for closeout as follows:
- 4.1.31.1 If a clearance was required, the equipment clearance, obtained per Procedure 00304-C, "Equipment Clearance And Tagging", will be closed out, if all sub-clearance holders are signed off.
- 4.1.31.2 The system/equipment should be restored to normal per the applicable operating procedure as determined by the SS or SSS.
- 4.1.31.3 Verifying that surveillance, functional, acceptance, inspections and/or special tests are completed, as required, and the WO is completed as applicable.

25 of 35

### NOTE

Shield plugs and blockwalls, where required, shall be reinstalled after completion of the functional test or after verification that the functional test does not require access to the component.

- 4.1.31.4 The WO will be signed by the SS, SSS, or SNS-CPT (as appropriate see Step 4.1.16), if acceptable. If not acceptable, the SS, SSS or SNS-CPT will sign, date, and write UNSAT on the WO.
- 4.1.31.5 The Fire Protection LCO action may be released provided the condition causing the LCO no longer exists.
- 4.1.31.6 All of the WO package will be returned to the WPG except Safeguard WOs, which will be returned to Document Control.
- 4.1.31.7 If related to a security system, ensure that the Security Supervisor has been notified.
- Wo's with partial work complete may be closed if remaining work to be completed is on equipment/items not requiring an WO or on open PM's verified not to have commitments. This only voids remaining work and the WO shall document the reason for not completing remaining tasks.
- 4.2 CALIBRATION PROGRAM

The preventive maintenance program will determine scope and schedule calibration of instrumentation not covered by Technical Specifications in accordance with Procedure 20015-C, "Prevent Maintenance".

- 4.2.1 Calibration frequencies will be maintained as part of the program.
- 4.2.2 Calibration schedule and frequencies may be altered as operating experience is gained and as equipment history is developed.

PROCEDURE NO		REVISION	PAGE NO
VEGP	00350-C	19	26 of 35
4.3	VOIDING WO'		
4.3.1	proper docu	be voided will be rementation on the WO. Procedure 29402-C, "	for evaluation and
4.3.2	Open PM's v voided with identified.	erified not to have on a scitement on the Wi	ommitments may be O noting no commitments
4.4.	EMERGENCY M	AINTENANCE	
4.4.1	Emergency maissuance or	aintenance may be pers	formed without the procedure.
4,4.2	promptly ar	aintenance will be docter completion of the permit by use of the V	work, or as plant
4.4.3	General Mana	aintenance will only bager - Nuclear Plant, lant Operations, OSOS,	Assistant Conorol
4.4.4	If time perm per Subsecti	mits, an Emergency WO Lon 4.5.	should be processed
4.5	EMERGENCY WO	ORK ORDER PROCESSING	
	immediate ad and safety of protect equi conditions to may be accomprocedures. it shall be review as the	ctions are required to tions are required to the public and plan pment or prevent dete to an unsafe level, ma plished without the un After accomplishing documented and given lough preplanned and n	protect the health of personnel, to erioration of plant sintenance activities use of written the maintenance work
4.5.1	If the need by the OSOS	for an emergency WO a or designee, the OSOS	or designee will:
4.5.1.1	Notify on-sh	ift maintenance super of an emergency WO.	

NUCLEAR PLANT MANAGEMENT INFORMATION SYSTEM 03/31/4 10 24 10 NEXT FAGE FRI 34641 STATUS F - WORK TYPE C SUB TYPE EQ (Y/N) NUC CLS

PRINT WALKDOWN RET FUNC I MUO# 18807746 00 ENTL # 1000AG REP TASKS DATE 10/30/88 TIME

PRINTER ID

MAINTENANCE WORK ORDER TO DE

UNIT 1 SYSTEM

STATUS INIT XMIT NUMBER

DATE LOADED 10/30/88 TIME LOADED 16 17:40 JOB NUMBER X

NPRD VEND/MFG DATE CODE

TYPE MAINT (P/F) P MPL/TAG LIST

MWO SAFETY CLASS (S-SAFETY/N-NON-SAFETY) N DESC TR IND

SYSTEM DESC

NE1111MG

NP+000DM

REF TASK\$

TECH SPECS

ELEM

FAID

MECH DEM MER - CONN

DURING DIESEL GEN. RUN RECIEVED ALL PROBLEM/WORK REQUESTED DESCEND JACKET WATER TEMP. MALFUNCTION" LOCAL INDICATION SHOWED J.W. TEMPTS. NORMAL. \*DOES NOT AFFECT DIESEL OPERABILITY\*

SHOULD WORK WHEN 18807710 IS WORKED\* (SEE PAGE 2 COMMENTS, SMF 9/13/89)

CONT

INITIATOR CHUCK LADD SUPERVISOR CHUCK LADD DATE REQD WCC RECEIVED DATE 11/21/89 TEMP MODS

EQF MODE REQD (O/F/N) REPAIR TAGS

UNIT MODE REQD (1-6/0/N)

SIGNATURE

NCR/DR # (Y/N) Y NCR/DR # 1883453

FIRE PROTECT RELATED (Y/N) N

DCR & (Y/N) N DCR \$

MATL AVAIL (Y/N) Y

REJECT CD/NAME/DT P2:START

END

OUTAGE (Y/N) Y FORCED REFUEL 12 REFERENCE D

COMPLETE TRANSACTION

7-BK 8-FWD 11-TXT 14-ST HIST/LIST 15-EXIT 17-EQF DTL 18-QUIT 19-REPDTL

EUNC I MWO# 1880774 DATE 10/30/88 TIME SCAFFOLDING IND OP X HP CH SE	REQUEST EL M OP FORE RESP (N) # COMMEN QC HOL	NANCE WOR TL# * 000 UNIT 1 # E IC MWO CLE SUFV TS GF25-9 D FTS (Y/	K ORDER AG REP SYSTEM INSUL EN QC AR REQ'D EST WO RWP REQD 02346 PO	STATUS ATION IND OT SCH (Y/N) Y # RK DURATN (Y/N) N 9 #7000195 REVIEW R L	F WORK REQUES D DT 18900758 12.0 PC MER 018 HEATER	TYPE C SU T # END T COMPLET FUNC TEST 194 (KIT) DATE	E (Y/N)
EST CREWSIZE			2				2
EST MANHOURS	-0	. 0	24.0	. 0	.0		24.0
EST EXPOSURE							
ACT CREWSIZE			2				2
ACT MANHOURS	. 0	. 0	20.0	. 0	. 0	. 0	20.0
ACT EXPOSURE							
PROC * 22332-C WORK * INSTRUCT		20429-C			LC	O (Y/N) N	
REWORK/REPLACE ANY	OF THE	SWITCHES	AS REQU	IRED TO CO	RRECT MAL	FUNCTION.	

MAINTAIN ZONE IV HOUSEKEEPING

CONT

COMPLETE TRANSACTION

PF7-BACK PF8-FWD FF11-CONT TEXT FF14-RESERVE LIST PF15-EXIT PF18-QUIT

MF1000DM

NF1150MG NUCLEAR FLANT MANAGEMENT INFORMATION SYSTEM MAINTENANCE WORK ORDER

03/31/4 10:24:(

-CONTINUATION REV. 1 5/4/89 J S RITCHENS

BLK 23: ADD CALIBRATION OF TEMP SWITCHES PER ATTACHEMNT \$1.

NEXT PAGE 01

FF15-EXIT FF18-RETURN TO MWO FILE MAINT PF7-BACK PF8-PAGE

ENTER NEXT PAGE OR PF18

NP1113MG NETOGODM

NUCLEAR PLANT MANAGEMENT INFORMATION SYSTEM MAINTENANCE WORK ORDER +3

03/31/1 10-24 6

FUNC I MWD\$ 18807746 DO CNTL\$ \*1000AG REP DATE 10/30/88 TIME

UNIT 1 SYSTEM

NESKE PRI 3464 STATUS F WORK TYPE C SUB TYPE

REF TASK#

INITIATION REVIEW

OPS JCP DATE 10/31/88 MNT TR DATE 10/31/88 HP HMB DATE 10/30/88 ENG MWP DATE 10/31/88 SMI/MER # 89014200 89014163 89014162 SPECIAL REVIEW REQD(Y/N) N SIGNATURE

SPC REV REDD COMM

DATE RELEASED FOR WORK 11/03/88 SIGNATURE W RYAN

DATE ACTUAL BEGIN 11/03/88 DATE ACTUAL END 11/20/89 DUE DATE

EARLY START DATE LATEST END DATE ACT WORK APPLIED 40-60 PSI TO 1-TSH-19110.1-TSH-19112 THRU DRFFICE AND HAD NO PERF'MED EAKS. DIDN'T USE PROCEDURES 20429-C/22332-C USED VP-2346 DUE 1-24-89 MAINTAINED ZONE IV HOUSEKEEPING ZUNE IV HOUSEKEEPING WAS MAINTAINED OBTAINED PERMISSION FROM SS (RYAN) TO BEGIN WORK, REMOVED 115H19110 & 11SH1911 - FROM SERVICE PROCEDED TO I & C SHOP TO CALIBRATE ON BENCH SE T-UP. OBTAINED AS-FOUND READINGS ON SWITCHES, BOTH 19110 & 19111 WERE OUT OF AS LEFT TOLERANCES. BEFORE CALIBRATIONS COULD BE MADE OPERATION S REQUESTED SWITCHS BE RE-INSTALLED. INSTALLED 175H19110 & 175H19111 0 N JACKET WATER HEADER OF DG 14. USED PROC 22332-C TO TAKE AS FOUNDS. FOREMEN

HIST SUMMARY

PERSON PERFORMING WORK TIM NEAL DATE COMPLETED 11/20/89

MAINT FOREMAN SCOTT HAMMOND REVIEW DATE 11/20/89

NEXT PAGE 3

CORRECTIVE ACTION CODES

COMPLETE TRANSACTION

PF7-BACK PF8-FWD PF11-CONT EXT PF15-EXIT PF18-QUIT

03/31/9

CONTINUATION

COMMENT TYPE FERFORMED FAGE 01

USED THE FOLLOWING TEST EQUIP VP2447-60\*GAGE -1-24-89, VP3081

-FLUKE 2190A-1/26/89. VP2444-60\* GAGE -1-9-89. BOTH SWITCHES

REFLECT CURRENT FLANT CONDITIONS. MAINTAINED ZONE IV HOUSEKE

EPING 110389 WTC PARTS 110388 FGL WROTE DC \$1-88-3453

OBTAINED AN ORFICE UNDER MER \$89-6323 DRILLED OUT ORFICE WITH A \$70 DRILL(VERIFIED WITH A MICROMETER TO BE .028).
VERIFIED THAT THE .028 DRILL WAS TIGHT IN THE HOLE. DETAINED THREE NEW CALCON TEMP. SWITCHES FROM N.O. WHSE UNDER MER\$89-6307. ATTEMPTED TO CALIBRATE SWITCHES USING ATTACHMENT \$1.
TWO SWITCHES ARE DEFECTIVE. ONE SWITCH HAS 2 STRIPPED SCREWS ON THE COVER AND THE OTHER LEAKS AIR AROUND THE COVER AND AROUND THE INPUT AIR THREADS. THE THIRD SWITCH IS OUT OF TOLERANCE (AS-FOUND OF 207 PSI). HOWEVER NO ADJUSTMENTS WERE MADE YET. THE OUT-OF-TOLERANCE SWITCH IS IN \*B\* STORAGE.
GEORGE TECHENTINE 5/10/89

NEXT PAGE OF

ENTER NEXT PAGE OR FF18
FF15-EXIT FF18-RETURN TO MWO FILE MAINT PF7-BACK PF8-PAGE

NP1114MG NUCLEAR FLANT MANAGEMENT INFORMATION SYSTEM NF1000DM MAINTENANCE WORK ORDER (4 DF 8)

10:24 4

DATE 10/30/88 THE DOOR ONTLE \*1000AG REP TASKS

FRI 34641 DATE 10/30/88 TIME UNIT 1 SYSTEM STATUS F WORK TYPE C SUB TYPE

DATE

DATE 11/21/89

DATE

MEETING #

REPORTED BEGIN DATE REPORTED END DATE

REF TASK#

TYPE OF FAILURE UNIT STATUS AT TIME OF FAILURE
CAUSE OF FAILURE METHOD OF DETECTION
MODE OF FAILURE CAUSE DESCRIPTION COLES
EFFECT ON PLANT EFFECT ON SYSTEM EFFECT ON SYSTEM

INSPECTION PERFORMED BY

POST MAINT FUNC TEST CODES METHOD FUNC TEST NONE REQUIRED PERFORMED IN BLOCK 27

DATE FUNCTIONAL TEST ASSIGNED

DPT RESP FNIST FROCEDURE\*

FUNC TEST PERFORMED BY DATE PROCEDURE\$
PROVES OPERABILITY (Y/N) HETHOD USED TO PROVE OPERABILITY SATISFACTORY (Y/N) Y IF UNSAT. CORRECTIVE ACTION

NEW MWOA

OPERATIONS ACCEPTANCE BY W B DIEHL

OSOS APPROVAL

SIGNATURE COMMENTS

PERFORMANCE TRACKING SCHO REGIN DATE
SCHO END DATE

INITIALS

RON

SPECIAL REVIEW COMPLETE (Y/N) PERFORMED DATE

CLOSE OUT REVIEW BY QC J C HARVEY QC CLOSE DATE 11/21/89
TRANSMITTAL NUMBER 107661 TRANSMITTAL DATE: 11/27/89

COMPLETE TRANSACTION

FF7-BACK PF8-FWD FF14-LIST PF15-EXIT PF18-QUIT

NUCLEAR PLANT MANAGEMENT INFORMATION SYSTEM NP1115MG 03/31/9 NP 1000DM MAINTENANCE WORK ORDER 10 24 0 NEXT PAGE 5 FUNC I MWO# 18807746 00 CNTL# \*1000AG REP TASKE PRT 34646 DATE 10/30/08 TIME UNIT 1 SYSTEM STATUS F WORK TYPE C SUB TYPE REF TASKS MFL/TAG TR 315 DESCRIPTION. LOCATION 1161905ALB035 ANNUNCIATOR LIGHT BOX ALB 108163 A 2403 1 TSH19110 DG1 JACK WTR HDR OUT 1DE1 3 TSH19111 A 2403 DG1 JACK WIR MAIN HDR OUT 1DB1 610

DSE GENT JACK UTR MAIN HD 1 DB1

CURRENT MPL/TAG PAGE 1 OF 1 NEXT MPL/TAG PAGE 1

COMPLETE TRANSACTION

1TSH19112

FF7-BACK FF8-FWD FF10-MNTHIST FF14-LIST FF15-EXIT FF17-EQP DTL FF18-QUI

NP1118MG NUCLEAR PLANT MANAGEMENT INFORMATION SYSTEM 03/31/9
NP1000DM MAINTENANCE WORK ORDER 18 OF 87 10 24

ONC I MUC4 18897746 99 SNTL# \*1000AG REP ASKI PAGE 8

PRI 34641

DATE 10730788 TIME UNIT 1 SYSTEM STATUS F WORK TYPE C SUR TYPE PRI 34641

REF TASK4

|-----ACCOUNT NUMBER----PE LOCK FERC SUB WO

ANAL7515 RCN

PAC

COMPLETE TRANSACTION

PF7-BACK MWD PF8-FWD MWO PF14-LIST PF15-EXIT PF18-QUIT

05-95-2-90

NUCLEAR FLANT MANAGEMENT INFORMATION SYSTEM NF1111MG 03/31/9 MAINTENANCE WORK ORDER (1 OF B) NF1000DM WALKDOWN RPT FRINTER ID

1 MWG# 19001339 00 CNTL# \*\* G REP TASK# WEXT PAGE PRINT WALKDOWN RP3 PRI TA STATUS IF WORK TYPE C SUB TYPE DATE 3/12/90 TIME UNIT 1 SYSTEM REF TASK\$ STATUS: INIT XMIT NUMBER DATE LOADED 3/15/90 TIME LOADED 9:25 00 JOB NUMBER TYPE MAINT (P/F) P MWO SAFETY CLASS (S-SAFETY/N-NON-SAFETY) N MPL/TAG LIST TR IND DESC SYSTEM DESC NEED. VEND/MEG DATE CODE TECH SPECS FAID MECH ELEM ELEC CONN PROBLEM/WERK REQUESTED DESC D/G 1A HIGH PRESSURE STARTING AIR ALARM IS LIT WITH RECEIVER @ 238/ FOR INFORMATIO 240 PISG.

WRT -6154 SUPERVISOR GARY MOORE DATE REQD INITIATOR SN DYER WCC RECEIVED DATE 3/25/90 TEMP MODS EQP MODE REQD (O/F/N) REPAIR TAGS 06154 UNIT MODE REQD (1-6/0/N) NCR/DR # (Y/N) N NCR/DR # FIRE PROTECT RELATED (Y/N) N SIGNATURE MATE AVAIL (Y/N) REJECT CD/NAME/DT DOR & (Y/N) N DOR # P2 START END DUTAGE (Y/N) Y FORCED REFUEL 12 REFERENCE D

COMPLETE TRANSACTION

D/G 1A. QMCB ALARM

LOCATION

7-BK 8-FWD 11-TKT 14-ST HIST/LIST 15-EXIT 17-EQF DTL 18-QUIT 19-REFDTL

NP1112MG NUCLEAR I NP1000DM MAINTE FUNC I MWO\$ 19001339 00 CF DATE 3712/90 TIME SCAFFOLDING IND REQUEST OP HP CH SE EL M LEAD DISC MAIN FISP FORE DPI RESP MAINT ICOP RESP	DE IC	SYSTEM INSULA EN QC AR RED'D	STATU STION IND ST SCI	S 16 WORK REQUES HD DT 3/2	TYPE C SU T \$ 3/90 END	3/24/5
DET RESP MAINT ICOP RESP WELD PERMIT REQD(Y/N) N & MAIL REQ'D (Y/N) COMMEN	191.71	RUP REOD	YZN) N B		FUNC TEST	Green
RESERVE # QC HOL CRAFT/COMPLETE MECH N RESP FOREMAN DATE SCHED START	D PTS (Y/ ELEC N	NA N QC F I&C Y TGG	HP W	FREEMAN CONT N	DATE OTHER N	3/45/ TOTALS
FST CREWSIZE EST MANHOURS	()	2 2	74			
EST EXPOSURE ACT CREWSIZE ACT MANHOURS .0		9	. 10	.0		
ACT MANHOURS	. 0	3.0	. 0	.0	. 0	, 0
PROC \$ 22721-0 WORK *CRI REPORTABLE INSTRUCT				LC		
INVESTIGATE/RECAL OR REPL ALARM CONDITION, RBROSE 3 ACCURACY PER: AX4AK01-364 SETPOINT PER: 1X4AK01-52	/15/90 MAINTA	IN ZONE I	Y HOUSTK	EEPING		CONT

COMPLETE TRANSACTION

PF7-BACK PF8-FWD PF11-CONT TEXT FF14-RESERVE LIST PF15-EXIT PF18-CUIT

	NF1112MG NF1000DM	NUCLEAR B	ANT MANA	GEMENT IN	FORMATION	SYSTEM DA	0:	1/31/5
	PUNE I MUDE 1900	1 7 7 50 (O) CO	7 1 8 46 36	P. D.E.D. Y		CHEVI LH	(C)	24
,	DATE 3/12/90 TIM	ME VIE	10077 4	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	ヤルハギ	A CT LEPYDOX 1	FREE C BOID	17 V (1) (2)
	SCAFFOLDING IND	SECULE ST	W.	TAISIN A	TION THE	ENTRY OF T	T A	1.15.07
	OP HP CH SI	7 E1 M	7.0	THE OP-	THE REPLY	15 100 TO 200	TYPE THE T	4 2 10 X 13
	LEAD DISC MAIN	DEST ENDE	nation and a	ALM BUT NO NO	VZNI N N	100 101 107 101	SYAM PURE	21.847.1
	MOT BEVE MATHE TO	TOTAL DEPART	127 AS 154 AV S	17975 275 1875 1875 1877 1875	TOTAL TERM	9 /5 DOM:	e constant reserve	
	DET RESP MAINT IC WELD PERMIT REOD	7 Y 781 Y 16 16	95 A15X	DAME TO POST A	D SPANNED M.	9.10 7.17	1 GUMPLEIL	
	MATL REQ'D (Y/N)	TOWNERS OF	F (C)	MAL MERSON	1/16/ 14 3		LINE INVIE	
	RESERVE #			day at the r	etrem no	PERMAN	E-A 1727	er a a recordi
	CRAFT/COMPLETE	MECH N	er miller till Miller var	4 F G A 75 C	100 M	T. IVE. S. PHODE	Dett.	an i ar -
	RESP FOREMAN	1905/11 18		TGG		POM I IS	DINEN N II	
	DATE SCHED START							
	DATE SCHED END							
	EST CREWSIZE							
	EST MANHOURS			20			Α.	
	ZST EXPOSURE			(3.9.5)				
	ACT CREWSIZE							
	ACT MANHOURS		73	7.0	Δ.	0	, 0	. 0
	ACT EXPOSURE	4.57		~	1	1.0	1 V	1.7
	PROC # 2272	6 5075	20429-1			L.C	h Zvzno n	
	WORK *CRI RE		MINT TANK T 19			SacSet	M TEXAL III	
	INSTRUCT							
	INVESTIGATE/REC	AL OR F ES	ALC: PROPERTY	SHITTHE . 2	F.S. &S. DEDI	HIRED TO C	4 6 6 6	
	ALARM CONDITION			2. 2. 10. 20. 11. 20.2.11	H-97 (\$150 1150581	Martines M. P.	Printing.	
	ACCURACY FER A			ATM ZONE	TV MELISER	EFFINE		
	SETPOINT PER 1	X4AK01-52	1,007,025,13	RESET F1	XED BER	CXSDTAGA	40 4 38	CONT
			attalie at an on the same	or with the second second second		WANTED TO SERVICE HERE	46 0 90	Ser Service

COMPLETE TRANSACTION

FF7-EACK FF8-FWD FF11-CONT TEXT PF14-RESERVE LIST PF15-EXIT FF18-QUIT

NETTI SMC NF OOODM

NUCLEAR PLANT MANAGEMENT INFORMATION SYSTEM CHAINTENANCE WORK ORDER (3 OF 83

03/31/4

TUNG 1 MW0# 19001339 00 CNTL# \*\* G REP TASKS

FRI 34 UNIT I SYSTEM STATUS IF WORK TYPE C SUB TYPE

PAGE

REF TASKA

INITIATION REVIEW

UPS JCP DATE 3/16/90 MNT RBR DATE 3/18/90 HP HMB DATA 3/15/90

ENG KEH DATE 3/15/90 SMI/MER 5

SPECIAL REVIEW REQD(Y/N) N SIGNATURE

SPC REV REGD COMM

DATE RELEASED FOR WORK 3/22/90 SIGNATURE WB DIEHL

DATE ACTUAL BEGIN 3/22/90 DATE ACTUAL END 3/24/90

DUE DATE EARLY START DATE LATEST END DATE ACT WORK OBTAINED SS PERMISSION TO CALIBRATE HIGH AIR PRESSURE ALARM SWITCHES PERF MED FOUND BOTH SWITCHES OUT OF CAL. CALIBRATED SWITCHES PER PROCEDURE 25 21-C USING VP2585 C/D 6-20-90. ADJUSTED TO WITHIN LIMITS. PLACED SWI TCHES BACK IN SERVICE, PROCEDURE 20429-0 NOT USED ZONE IV HOUSEKEEPIN

G MAINTAINED.

FOREMEN HIST SUMMARY

PERSON PERFORMING WORK MICHAEL JOHNSON DATE COMPLETED 3/23/90 MAINT FOREMAN P LINEBARGER REVIEW DATE 3/24/90

CORRECTIVE ACTION CODES

COMPLETE TRANSACTION

PF7-BACK PF8-FWD PF11-CONT TEXT PF15-EXIT PF18-QUIT

NP1114MG NUCLEAR FLANT MANAGEMENT INFORMATION SYSTEM 03/31/9
NP1000DM MADRIENANCE WORK ORDER (4 DE 8) 10:28:

THE JAMES 1900:330 00 CHTLS \*\* G REP TASKS

PRI 34 DATE 3/12/90 TIME ... UNIT 1 SYSTEM STATUS 1F WORK TYPE C SUB TYPE

REF TASK\$

TYPE OF FAILURE UNIT STATUS AT TIME OF FAILURE CAUSE OF FAILURE METHOD OF DETECTION MODE OF FAILURE CAUSE DESCRIPTION CODES OFFECT ON PLANT EFFECT ON SYSTEM

EFFOOT ON SYSTEM

INSPECTION PERFORMED BY

POST MAINT FUNC TEST CODES

METHOD FUNC TEST

DATE FUNCTIONAL TEST ASSIGNED DATE PROCEDURES

FUNC TEST PERFORMED BY DATE PROCEDURES

FUNC TEST PERFORMED BY

PROVES OFERAPILITY (Y/N)

SATISFACTORY (Y/N)

IF UNSAT, CORRECTIVE ACTION

NEW MWO#

OPERATIONS ACCEPTANCE BY

DEOS APPROVAL

PERFORMANCE TRACKING SCHO BEGIN DATE
SCHO END DATE
INITIALS
REPORTED BEGIN DATE
REPORTED END DATE
REPORTED END DATE

SPECIAL REVIEW COMPLETE (Y/N) PERFORMED DATE

MEETING

SIGNATURE COMMENTS

CLOSE OUT REVIEW BY QC QC CLOSE DATE TRANSMITTAL NUMBER TRANSMITTAL DATE:

COMPLETE TRANSACTION

FF7-BACK PF8-FWD FF14-LIST PF15-EXIT PF18-QUIT

NP1115MG NUCLEAR PLANT MANAGEMENT INFORMATION SYSTEM 03/31/1
NP1000DM MAINTENANCE WORK ORDER (5 OF 8) 10 OF 2

FUNC I MWOO 19001339 00 ENTLS \*\* C REP TASKS PRI 34

DATE 3/12/90 TIME UNIT 1 SYSTEM STATUS 1F WORK TYPE C SUR TYPE

REF TASKS

MPL/TAG TR SYS DESCRIPTION LOCATION EQP CL

1PSM9052 A 2403 STARTING AIR PRESS TRN A 1DB1 613

A 2403 STARTING AIR PRESS TRN A 1DB1

CURRENT MPL/TAG PAGE 1 OF 1 NEXT MPL/TAG PAGE 1

COMPLETE TRANSACTION

1PSH9056

PF7-BACK PFR-FWD PF10-MNTHIST PF14-LIST PF15-EXIT PF17-EQF DTL PF18-QUI

NF1119MG NF1000DM

NUCLEAR PLANT MANAGEMENT INFORMATION SYSTEM MAINTENANCE WORK ORDER (8 OF 8)

03/31/9

CUNC I MUDO 19001339 DO CHTLO NN G REP ASKS PAGE 8 DATE 3712790 TIME

PRI 34

REF TASK\$

UNIT 1 SYSTEM STATUS IF WORK TYPE C SUB TYPE

|------ACCOUNT NUMBER-----PE LOCK FERG SUB WO

PAC CODE

0000 008251 531 00027 000000

000212

CUMPLETE TRANSACTION

PF7-BACK MWO PF8-FWD MWO PF14-LIST PF15-EXIT PF18-QUIT

SECTION 6.0
ADMINISTRATIVE CONTROLS

#### 6.1 RESPONSIBILITY

- 6.1.1 The General Manager Nuclear Plant shall be responsible for overall plant operation and shall delegate in writing the succession to this responsibility during his absence.
- 6.1.2 The General Manager-Nuclear Plant will annually reissue a directive that emphasizes the primary management responsibility of the onshift Operations Supervisor (or during his absence from the control room, the individual designated to assume the command functions) for safe operation of the plant under all conditions on his shift and that clearly establishes his command duties.

#### 6.2 ORGANIZATION

#### ONSITE AND OFFSITE ORGANIZATIONS

- 6.2.1 Onsite and offsite organizations shall be established for plant operation and corporate management, respectively. The onsite and offsite organizations shall include the positions for activities affecting the safety of the nucelar power plant.
  - a. Lines of authority, responsibility, and communication shall be established and defined for the highest management 'evels through intermediate levels to and including all operating organization positions. These relationships shall be documented and updated, as appropriate, in the form of organization charts, functional descriptions of departmental responsibilities and relationships, and job descriptions for key personnel positions. or in equivalent forms of documentation. These requirements shall be documented in the FSAR.
  - b. The General Manager Nuclear Plant shall be responsible for overall plant safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant.
  - c. The Vice President Nuclear shall have corporate responsibility for overall plant nuclear safety and shall take any measures needed to ensure acceptable performance of the staff in operating, maintaining, and providing technical support to the plant to ensure nuclear safety.
  - d. The individuals who train the operating staff and those who carry out health physics and quality assurance functions may report to the appropriate onsite manager; however, they shall have sufficient organizational freedom to ensure their independence from operating pressures.

# PLANT STAFF

- 6.2.2 The plant organization shall be subject to the following:
  - a. Each on-duty shift shall be composed of at least the minimum shift crew composition shown in Table 6.2-1;

#### PLANT STAFF (Continued)

- b. When fuel is in either reactor at least one operator licensed on the applicable unit shall be in the control room. In addition, while either upit is in MODE 1, 2, 3, in 1 at least one Senior Operator licensed on the applicable unit(s) shall us in the control room.
- C. An individual\* who has successfully completed the Initial Technician Training portion of the Health Physics Training Program or its equivalent shall be on site when fuel is in either reactor;
- d. All CORE ALTERATIONS shall be observed and directly supervised by either a licensed Senior Operator or licensed Senior Operator Limited to Fuel Handling who has no other concurrent responsibilities during this operation;
- e. Administrative procedures shall be developed and implemented to limit the working hours of plant staff in performance of safety-related functions (e.g., licensed Senior Operators, licensed Operators, key Health Physics Technicians, key non-licensed operators, and key maintenance personnel).

Adequate shift coverage shall be maintained without routine heavy use of overtime. The objective shall be to have operating personnel work a nominal 40-hour week while the plant is operating. (This work week may consist of 12-hour shift schedules.) However, in the event that unforeseen problems require substantial amounts of overtime to be used, or during extended periods of shutdown for refueling, major maintenance, or major plant modification, on a temporary basis the following guidelines shall be followed:

- An individua! should not be permitted to work more than 16 hours straight, excluding shift turnover time.
- 2. An individual should not be permitted to work more than 16 hours in any 24-hour period, nor more than 24 hours in any 48-hour period, nor more than 72 hours in any 7-day period, all excluding shift turnover time.
- A break of at least 8 hours should be allowed between work periods, including shift turnover time.
- 4. Except during extended shutdown periods, the use of overtime should be considered on an individual basis and not for the entire staff on a shift.

<sup>#</sup>If a single Senior Operator does not hold a Senior Operator's license on both units, two or more Senior Operators who in combination are licensed as Senior Operators on both units may fulfill this requirement.

<sup>\*</sup>This individual may be absent for a period of time not to exceed 2 hours, in order to accommodate unexpected absence, provided immediate action is taken to fill the required position.

#### PLANT STAFF (Continued)

Any deviation from the above guidelines shall be authorized by the applicable department inherintendent, or higher levels of management, in accordance with established procedures and with documentation of the basis for granting the deviation. Controls shall be included in the procedures such that individual excess overtime shall be reviewed monthly by the General Manager - Nuclear Plant or his designee to assure that excessive hours were authorized and that they do not become rectine.

FIGURE 6.2-1 (DELETED) FIGURE 6.2-2 (DELETED)

# TABLE 6.2-1 MINIMUM SHIFT CREW COMPOSITION TWO UNITS WITH A COMMON CONTROL ROOM

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			
OS	1		1			
SRO	1	none**	1			
RO	3*	2*	3*			
NLO	3*	3*	3*			
STA	1***	none	1***			

OS - Operations Supervisor with a Senior Operator license

SRO - Individual with a Senior Operator license

RO - Individual with an Operator license

NLO - Non-Licensed Operator STA - Shift Technical Advisor

The shift crew composition may be on ss than the minimum requirements of Table 6.2-1 for a period of time not exceed 2 hours in order to accommodate unexpected absence of on-duty shift crew members provided immediate action is taken to restore the shift crew composition to within the minimum requirements of Table 6.2-1. This provision does not permit any shift crew position to be unmanned upon shift change due to an oncoming shift crewman being lat. or absent.

During any absence of the Operations Supervisor from the control room while either unit is in MODE 1, 2, 3, or 4, an individual with a valid Senior Operator license shall be designated to assume the control room command function. During any absence of the Operations Supervisor from the control room while either unit is in MODE 5 or 6, an individual with a valid Senior Operator license or Operator license shall be designated to assume the control room command function.

<sup>\*</sup>At least one of the required individuals must be assigned to the designated position for each unit.

<sup>\*\*</sup>At least one licensed Senior Operator or Licensed Senior Operator Limited to Fuel Handling who has no other concurrent responsibilities must be present during CORE ALTERATIONS on either unit.

<sup>\*\*\*</sup>The STA position shall be manned in MODES 1, 2, 3, and 4 unless the Operations Supervisor or the individual with a Senior Operator license meets the qualifications for the STA as stated in the Policy Statement on Engineering Expertise on Shift, dated October 28, 1985.

# 6.2.3 INDEPENDENT SAFETY ENGINEERING GROUP (ISEG)

#### FUNCTION

6.2.3.1 The ISEG shall function to examine plant operating characteristics. NRC issuances, industry advisories, Licensee Event Reports, and other sources of plant design and operating experience information, which may indicate areas for improving plant safety. The ISEG shall make detailed recommendations for revised procedures, equipment modifications, maintenance activities, operations activities, or other means of improving plant safety to the Vice President-Nuclear.

#### COMFUSITION

6.2.3.2 The ISEG shall be composed of at least five, dedicated, full-time engineers. Each shall have a bachelor's degree in engineering or related science and at least 2 years professional level experience in his field, at least 1 year of which experience shall be in the nuclear field.

#### RESPONSIBILITIES

6.2.3.3 The ISEG shall be responsible for maintaining surveillance of plant activities to provide independent verification\* that these activities are performed correctly and that human errors are reduced as much as practical.

#### RECORDS

6.2.3.4 Records of activities performed by the ISEG shall be prepared, maintained, and forwarded each calendar month to the Vice President - Nuclear.

# 6.2.4 SHIFT TECHNICAL ADVISOR

6.2.4.1 The Shift Technical Advisor shall provide advisory technical support to the Shift Supervisor in the areas of thermal hydraulics, reactor engineering, and plant analysis with regard to the safe operation of the plant. The Shift Technical Advisor shall have a bachelor's degree or equivalent in a scientific or engineering discipline and shall have received specific training in the respons and analysis of the plant for transients and accidents, and in plant design and layout, including the capabilities of instrumentation and controls in the control room.

<sup>\*</sup>Not responsible for sign-off function.

#### 6.3 TRAINING

6.3.1 A retraining and replacement training program for the plant staff shall be maintained under the direction of the Plant Training and Emergency Preparedness Manager. Personnel will meet the minimum education and experience recommendations of Regulatory Guide 1.8, Revision 2 and, for licensed staff, 10 CFR 55.59 before they are considered qualified to perform all duties independently. Prior to meeting the recommendations of Regulatory Guide 1.8, Revision 2, personnel may be trained to perform specific tasks and will be qualified to perform those tasks independently. Personnel who complete an accredited program which has been endorsed by the NRC shall mee, the requirements of the accredited program in lieu of the above.

#### 6.4 REVIEW AND AUDIT

#### 6.4.1 PLANT REVIEW BOARD (PRB)

#### FUNCTION

6.4.1.1 The PRB shall function to advise the General Manager-Nuclear Plant on all matters related to nuclear safety.

#### COMPOSITION

6.4.1.2 The PRB shall be composed of Department Superintendents or Managers, or supervisory personnel reporting directly to Department Superintendents or Managers from the departments listed below:

Operations
Maintenance
Quality Control
Health Physics
Nuclear Safety and Compliance
Engineering Support

A senior health physicist is acceptable for the Health Physics Department PRB representative. The chairman, his alternate and other members and their alternates of the PRB shall be designated by the General Manager-Nuclear Plant.

#### ALTERNATES

6.4.1.3 No more than two alternates shall participate as voting members in PRB activities at any one time.

# MEETING FREQUENCY

6.4.1.4 The PRB shall meet at least once per calendar month and as convened by the PRB Chairman or his designated alternate.

#### **RESPONSIBILITIES** (Continued)

#### QUORUM

6.4.1.5 The quorum of the PRB necessary for the performance of the PRB responsibility and authority provisions of these Technical Specifications shall consist of the Chairman or his designated alternate and four members including alternates.

#### RESPONSIBILITIES

- 6.4.1.6 The PRB shall be responsible for:
  - a. Review of 1) procedures which establish plant-wide administrative controls to implement the QA program or Technical Specifications surveillance program, 2) procedures for changing plant operating modes, 3) emergency and abnormal operating procedures, 4) procedures for effluent releases of radiological consequences, and 5) fuel handling procedures.
  - b. Review of 1) programs required by Specification 6.7.4 and changes thereto, and 2) proposed procedures and changes to procedures which involve an unreviewed safety question as per 10 CFR 50.59.
  - Review of all proposed tests and experiments that affect nuclear safety;
  - Review of all proposed changes to the Technical Specifications;
  - e. Review of all proposed changes or modifications to plant systems or equipment that affect nuclear safety, including proposed changes to Chapter 16.3 of the Vogtle Final Safety Analysis Report (FSAR);
  - Investigation of all violations of the Technical Specifications, including the preparation and forwarding of reports covering evaluation and recommendations to prevent recurrence, to the Vice President-Nuclear and to the Safety Review Board;
  - g. Review of all REPORTABLE EVENTS;
  - Review of plant operations to detect potential hazards to nuclear safety;
  - Performance of special reviews, investigations, or analyses and reports thereon as requested by the General Manager-Nuclear Plant or the Safety Review Board;
  - j. Review of the Security Plan and implementing procedures and submittal of recommended changes to the General Manager-Nuclear Plant and the Safety Review Board;

#### RESPONSIBILITIES (Continued)

- k. Review of the Emergency Plan and implementing procedures and submittal of recommended changes to the General Manager-Nuclear Plant and the Safety Review Board;
- Review of any accidental, unplanned, or uncontrolled radioactive release including the preparation of reports covering evaluation, recommendations, and disposition of the corrective action to prevent recurrence and the forwarding of these reports to the Vice President-Nuclear and to the Safety Review Board;
- m. Review of changes to the PROCESS CONTROL PROGRAM, the OFFSITE DOSE CALCULATION MANUAL, and the Radwaste Treatment Systems; and
- n. Review of the Fire Protection Program and Implementing procedures and submittal of recommended changes to the General Manager-Nuclear Plant.

#### 6.4.1.7 The PRB shall:

- a. Recommend in writing to the General Manager-Nuclear Plant approval or disapproval of items considered under Specification 6.4.2.6a. through e. prior to their implementation;
- b. Render det minations in writing with regard to whether or not each item considered under Specification 6.4.1.6a. through f. constitutes an unreviewed safety question; and
- Provide written notification within 24 hours to the Vice President-Nuclear and the Safety Review Board of disagreement between the PRB and the General Manager-Nuclear Plant; however, the General Manager-Nuclear Plant shall have responsibility for resolution of such disagreements pursuant to Specification 6.1.1.

#### RECORDS

6.4.1.8 The PRB shall maintain written minutes of each PRB meeting that, at a minimum, document the results of all PRB activities performed under the responsibility provisions of those Technical Specifications. Copies shall be provided to the Vice President-Nuclear and the Safety Review Board.

# 6.4.2 SAFETY REVIEW BOARD (SRB)

#### FUNCTION

- 6.4.2.1 The SRB shall function to provide independent review and audit of designated activities in the areas of:
  - a. Nuclear power plant operations,
  - b. Nuclear engineering,

#### FUNCTION (Continued)

c. Chemistry and radiochemistry,

d. Metallurgy,

e. Instrumentation and control,

f. Radiological safety.

g. Mechanical and electrical engineering, and

h. Quality assurance practices.

The SRB shall report to and advise the Vice President-Nuclear on those areas of responsibility specified in Specifications 6.4.2.7 and 6.4.2.8.

#### COMPOSITION

6.4.2.2 The SRB shall be composed of a minimum of five persons who, as a group, provide the expertise to review and audit the operation of a nuclear power plant. The chairman and other members shall be appointed by the Vice President-Nuclear or other such person as he may designate. The composition of the SRB shall meet the requirements of ANSI N18.7-1976.

#### ALTERNATES

6.4.2.3 All alternate members shall be appointed in writing by the SRB Chairman to serve on a temporary basis; however, no more than a minority of alternates shall participate as voting members in SRB activities at any one time.

## CONSULTANTS

6.4.2.4 Consultants shall be utilized as Jetermined by the SRB chairman to provide expert advice to the SRB.

# MEETING FREQUENCY

6.4.2.5 The SRB shall meet at least once per calendar quarter during the initial year of plant operation following fuel loading and at least once per 6 months thereafter.

#### QUORUM

6.4.2.6 The quorum of the SRB necessary for the performance of the SRB review and audit functions of these Technical Specifications shall consist of the Chairman or his designated alternate and at least a majority of the SRB members including alternates. No more than a minority of the quorum shall have line responsibility for operation of the plant.

#### REVIEW

- 6.4.2.7 The SRB shall be responsible for the review of:
  - a. The safety evaluations for: (1) changes to procedures, equipment, or systems; and (2) tests or experiments completed under the provision of 10 CFR 50.59, to verify that such actions did not constitute an unreviewed safety question;
  - Proposed changes to procedures, equipment, or systems which involve an unreviewed safety question as defined in 10 CFR 50.59;
  - Proposed tests or experiments which involve an unreviewed safety question as defined in 10 CFR 50.59;
  - d. Proposed changes to Technical Specifications or these Operating Licenses;
  - e. Violations of Codes, regulations, orders, Technical Specifications, license requirements, or of internal procedures or instructions having nuclear safety significance;
  - f. Significant operating abnormalities or deviations from normal and expected performance of plant equipment that affect nuclear safety;
  - g. All REPORTABLE EVENTS;
  - h. All recognized indications of an unanticipated deficiency in some aspect of design or operation of structures, systems, or components that could affect nuclear safety; and
  - i. Reports and meeting minutes of the PRB.

#### AUDITS

- 6.4.2.8 Audits of plant activities shall be performed under the cognizance of the SRB. Each inspection or audit shall be performed within the specified time interval with:
  - A maximum allowable extension not to exceed 25% of the inspection audit interval.
  - A total maximum combined interval time for any 3 consecutive inspection or audit intervals not to exceed 3.25 times the specified inspection or audit interval.

#### These audits shall encompass:

The conformance of plant operation to provisions contained within the Technical Specifications and applicable license conditions at least once per 12 months;

#### AUDITS (continued)

- b. The performance, training, and qualifications of the entire plant staff at least once per 12 months;
- The results of actions taken to correct deficiencies occurring in plant equipment, structures, systems, or method of operation that affect nuclear safety, at least once per 6 months;
- d. The performance of activities required by the Operational Quality Assurance Program to meet the criteria of Appendix B, 10 CFR Part 50, at least once per 24 months;
- e. The fire protection programmatic controls including the implementing procedures at least once per 24 months by qualified licensee QA personnel;
- f. The fire protection equipment and program implementation at least once per 12 months utilizing either a qualified offsite licensee fire protection engineer or an outside independent fire protection consultant. An outside independent fire protection consultant shall be used as least every third year;
- g. The Radiological Environmental Monitoring Program and the results thereof at least once per 12 months;
- The OFFSITE DOSE CALCULATION MANUAL and implementing procedures at least once per 24 months;
- The PROCESS CONTROL PROGRAM and implementing procedures for processing and packaging of radioactive wastes at least once per 24 months;
- j. The performance of activities required by the Quality Assurance Program for effluent and environmental monitoring at least once per 12 months;
- k. The Emergency Plan and implementing procedures (at least once per 12 months);
- The Security Plan and implementing procedures (at least once per 12 months).

#### RECORDS

- 6.4.2.9 Records of SRB activities shall be prepared, approved, and distributed as indicated below:
  - a. Minutes of each SRB meeting shall be prepared, approved, and forwarded to the Vice President-Nuclear within 14 days following each meeting;

#### RECORDS (Continued)

- b. Reports of reviews encompassed by Specification 6.4.2.7 shall be prepared, approved, and forwarded to the Vice President-Nuclear within 14 days following completion of the review; and
- c. Audit reports encompassed by Specification 6.4.2.8 shall be forwarded to the Vice President-Nuclear and to the management positions responsible for the areas audited within 30 days after completion of the audit by the auditing organization.

#### 6.5 REPORTABLE EVENT ACTION

- 6.5.1 The following actions shall be taken for REPORTABLE EVENTS:
  - a. The Commission shall be notified and/or a report submitted pursuant to the requirements of Section 50.72 and Section 50.73 to 10 CFR Part 50, and
  - b. Each REPORTABLE EVENT shall be reviewed by the PRB, and the results of this review shall be submitted to the SRB and the Vice President-Nuclear.

#### 6.6 SAFETY LIMIT VIOLATION

- 6.6.1 The following actions shall be taken in the event a Safety Limit is violated:
  - a. In accordance with 10 CFR 50.72, the NRC Operations Center shall be notified by telephone as soon as practical and in all cases within one hour ofter the violation has been determined. The Vice President-Nuclear, the SRB, PRB, and the General Manager-Nuclear Plant shall be notified within 24 hours.
  - b. A Licensee Event Report shall be prepared in accordance with 10 CFR 50.73.
  - The Licensee Event Report shall be submitted to the Commission in accordance with 10 CFR 50.73, and to the PRB, SRB, the General Manager-Nuclear Plant and the Vice President-Nuclear within 30 days after discovery of the event and the covery of the event.
  - d. Critical operation of the affected unit shall not be resumed until authorized by the Nuclear Regulatory Commission.

# 6.7 PROCEDURES AND PROGRAMS

- 6.7.1 Written procedures shall be established, implemented, and maintained covering the activities referenced below:
  - The applicable procedures recommended in Appendix A of Regulatory Guide 1.33, Revision 2, February 1978;

#### 6.7 PROCEDURES AND PROGRAMS (Continued)

- b. The emergency operating procedures required to implement the requirements of NUREG-0737 and Supplement 1 to NUREG-0737 as stated in Generic Letter No. 82-33;
- c. Security Plan implementation;
- d. Emergency Plan implementation;
- e. PROCESS CONTROL PROGRAM implementation;
- f. OFFSITE DOSE CALCULATION MANUAL implementation;
- g. Quality Assurance for effluent and environmental monitoring;
- h. Fire Protection Program Implementation; and
- Technical Specifications Improvement Program implementation. (FSAR Chapter 16.3)
- 6.7.2 Each procedure of 6.7.1 above, and changes thereto, shall be reviewed as set forth in administrative procedures and approved by either the General Manager-Nuclear Plant or the department head of the responsible department prior to implementation with the exception of the following which shall be approved by the General Manager-Nuclear Plant:
  - procedures which establish plant-wide administrative controls (which implement the quality assurance program and the Technical Specifications surveillance program),
  - 2) unit operating procedures (UOPs)
  - emergency operating procedures (EOPs)
  - abnormal operating procedures (AOPs)
  - 5) procedures for implementing the security plan, emergency plan, and the fire protection program, and
  - 6) fuel handling procedures.

PRB responsibilities for procedures are delineated in 6.4.1.

- 6.7.3 Temporary changes to procedures of Specification 6.7.1 may be made provided:
  - a. The intent of the original procedure is not altered;
  - b. The change is approved by two members of the plant management staff, at least one of whom holds a Senior Operator license; and

## PROCEDURES AND PROGRAMS (Continued)

- C. The change is documented, reviewed in accordance with Specification 6.7.2 and approved by the General Manager-Nuclear Plant or department head of the responsible department within 14 days of implementation.
- 6.7.4 The following programs shall be established, implemented, and maintained:
  - a. Primary Coolant Sources Outside Containment

A program to reduce leakage from those portions of systems outside containment that could contain highly radioactive fluids during a serious transient or accident to as low as practical levels. The systems include the following:

1) Residual Heat Removal System

2) Containment Spray System (excluding NaOH Subsystem)

Safety Injection (excluding Boron Injection & Accumulators)
 Chemical and Volume Control System (Letdown, Boron Recycle, and Charging Pumps)

5) Post Accident Processing System6) Gaseous Waste Processing System

7) Nuclear Sampling System (Pressurizer steam and liquid sample lines, Reactor Coolant sample lines, RHR sample lines, CVCS Demineralizer and Letdown Heat Exchanger sample lines only)

# The program shall include the following:

- Preventive maintenance and periodic visual inspection requirements, and
- Leak test requirements for each system at refueling cycle intervals or less.

# b. In-Plant Radiation Monitoring

A program which will ensure the capability to accurately determine the airborne iodine concentration in vital areas under accident conditions. This program shall include the following:

- 1) Training of personnel,
- 2) Procedures for monitoring, and
- Provisions for maintenance of sampling and analysis equipment.

# c. Secondary Water Chemistry

A program for monitoring of secondary water chemistry to inhibit steam generator tube degradation. This program shall include:

## PROCEDURES AND PROGRAMS (Continued)

- Identification of a sampling schedule for the critical variables and control points for these variables,
- Identification of the procedures used to measure the values of the critical variables.
- 3) Identification of process sampling points,
- 4) Procedures for the recording and management of data,
- 5) Procedures defining corrective actions for all of control point chemistry conditions, and
- 6) A procedure identifying: (a) the authority responsible for the interpretation of the data, and (b) the sequence and timing of administrative events required to initiate corrective action.

## d. Post-Accident Sampling

A program which will ensure the capability to obtain and analyze reactor coolant, radioactive iodines and particulates in plant gaseous effluents, and containment atmosphere samples under accident conditions. The program shall include the following:

- Training of personnel,
- 2) Procedures for sampling and analysis, and
- Provisions for maintenance of sampling and analysis equipment.
- e. A program which will ensure the capability to monitor plant variables and systems operating status during and following an accident. This program shall include those instruments provided to indicate system operating status and furnish information regarding the release of radioactive materials (Category 2 and 3 instrumentation as defined in Regulatory Guide 1.97 Revision 2) and provide the following:
  - preventive maintenance and periodic surveillance of instrumentation.
  - pre-planned operating procedures and back-up instrumentation to be used if one or more monitoring instruments become inoperable.
  - 3) administrative procedures for returning inoperable instruments to OPERABLE status as soon as practicable.

#### 6.8 REPORTING REQUIREMENTS

#### ROUTINE REPORTS

6.8.1 In addition to the applicable reporting requirements of Title 10, Code of Federal Regulations, the following reports shall be submitted to the Regional Administrator of the Regional Office of the NRC unless otherwise noted.

#### STARTUP REPORT

6.8.1.1 A summary report of plant startup and power escalation testing shall be submitted following: (1) receipt of an Operating License, (2) amendment to the license involving a planned increase in power level, (3) installation of fuel that has a different design or has been manufactured by a different fuel supplier, and (4) modifications that may have significantly altered the nuclear, thermal, or hydraulic performance of either unit.

The initial Startup Report shall address each of the startup tests identified in the Final Safety Analysis Report and shall include a description of the measured values of the operating conditions or characteristics obtained during the test program and a comparison of these values with design predictions and specifications. Any corrective actions that were required to obtain satisfactory operation shall also be described. Any additional specific details required in license conditions based on other commitments shall be included in this report. Subsequent Startup Reports shall address startup tests that are necessary to demonstrate the acceptability of changes and/or modifications.

Startup Reports shall be submitted within: (1) 90 days following completion of the Startup Test Program, (2) 90 days following resumption or commencement of commercial power operation, or (3) 9 months following initial criticality, whichever is earliest. If the Startup Report does not cover all three events (i.e., initial criticality, completion of Startup Test Program, and resumption or commencement of commercial operation), supplementary reports shall be submitted at least every 3 months until all three events have been completed.

# ANNUAL REPORTS\*\*

6.8.1.2 Annual Reports covering the activities of the plant as described below for the previous calendar year shall be submitted prior to March 1 of each year. The initial report shall be submitted prior to March 1 of the year following initial criticality.

Reports required on an annual basis shall include:

a. A tabulation on an annual basis of the number of plant, utility, and other personnel (including contractors) receiving exposures greater than 100 mre.a/yr and their associated man-rem exposure according to work and job functions\* (e.g., reactor operations and

<sup>\*</sup>This tabulation supplements the requirements of \$20.407 of 10 CFR Part 20.

\*\*A single submittal may be made for Units 1 and 2. The submittal should combine those sections that are common to both units at the plant.

## ANNUAL REPORTS (Continued)

maintenance [describe maintenance], waste processing, and refueling). The dose assignments to various duty functions may be estimated based on pocket dosimeter, thermoluminescent dosimeter (TLD), or film badge measurements. Small exposures totalling less than 20% of the individual total dose need not be accounted for. In the aggregate, at least 80% of the total whole-body dose received from external sources should be assigned to specific major work functions;

- The results of specific activity analyses in which the primary coolant exceeded the limits of Specification 3.4.8. The following information shall be included: (1) Reactor power history starting 48 hours prior to the first sample in which the limit was exceeded (in graphic and tabular format); (2) Results of the last isotopic analysis for radio-iodine performed prior to exceeding the limit, results of analysis while limit was exceeded and results of one analysis after the radioiodine activity was reduced to less than limit. Each result should include date and time of sampling and the radioiodine concentrations; (3) Clean-up flow history starting 48 hours prior to the first sample in which the limit was exceeded; (4) Graph of the I-131 concentration  $(\mu\text{Ci/gm})$  and one other radioidine isotope concentration  $(\mu\text{Ci/gm})$  as a function of time for the duration of the specific activity above the steady-state level; and (5) The time duration when the specific activity of the primary Loolant exceeded the radioiodine limit.
- c. A report shall be prepared and submitted to the commission on an annual basis if sealed source or fission detector leakage tests reveal the presence of greater than or equal to 0.005 microcuries of removable contamination.

# ANNUAL RADIOLOGICAL ENVIRONMENTAL SURVEILLANCE REPORT\*\*\*

6.8.1.3 Routine Annual Radiological Environmental Surveillance Reports covering activities of the Radiological Environmental Monitoring Program during the previous calendar year shall be submitted prior to May 1 of each year. The initial report shall be submitted prior to May 1 of the year following initial criticality and shall include copies of reports of the preoperational Radiological Environmental Monitoring Program of the plant for at least two years prior to initial criticality.

The Annual Radiological Environmental Surveillance Report shall include summaries, interpretations, and an analysis of trends of the results of the radiological environmental surveillance activities for the report period, including, as appropriate, a comparison with preoperational studies, with operational controls, and with previous environmental surveillance reports, and an assessment of any observed impacts of plant operations on the environment. The report shall also include the results of the Land Use Census required by Specification 3.12.2.

<sup>\*\*\*</sup>A single submittal may be made for Units 1 and 2.

#### ANNUAL RADIOLOGICAL ENVIRONMENTAL SURVEILLANCE REPORT (Continued)

The Annual Radiological Environmental Surveillance Report shall include the results of analysis of all radiological environmental samples and of all environmental radiation measurements taken during the period pursuant to the locations specified in the table and figures in the Offsite Dose Calculation Manual, as well as summarized and tabulated results of these analyses and measurements in the format of the table in the Radiological Assessment Branch Technical Position, Revision 1, November 1979. The radiological level of radionuclides which are naturally occurring not included in the plant effluents need not be reported. In the event that some individual results are not available for inclusion with the report, the report shall be submitted noting and explaining the reasons for the missing results. The missing data shall be submitted as soon as practicable in a supplementary report.

The report shall also include the following: a summary description of the Radiological Environmental Monitoring Program; at least two legible maps covering all sampling locations keyed to a table giving distances and directions from a point midway between the two reactors; the results of licensee participation in the Interlaboratory Comparison Program and the corrective action taken if the specified program is not being performed as required by Specification 3.12.3; reasons for not conducting the Radiological Environmental Monitoring Program as required by specification 3.12.1, and discussion of all deviations from the sampling schedule of Table 3.12-1; discussion of environmental sample measurements that exceed the reporting levels of Table 3.12-2 but are not the result of plant effluents, pursuant to ACTION b. of Specification 3.12.1; and discussion of all analyses in which the LLD required by Table 4.12-1 was not achieved.

# SEMIANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

6.3.1.4 Routine Semiannual Radioactive Effluent Release Reports covering the operation of the unit during the previous 6 months of operation shall be submitted within 60 days after January 1 and July 1 of each year. The period of the first report shall begin with the date of initial criticality.

The Semiannual Radioactive Effluent Release Reports shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the unit as outlined in Regulatory Guide 1.21, "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Flants," Revision 1, June 1974, with data summarized on a quarterly basis following the format of Appendix B thereof. For solid wastes, the format for Table 3 in Appendix B shall be supplemented with three additional categories: class of solid wastes (as defined by 10 CFR Part 61), type of container (e.g., LSA, Type A, Type B, Large Quantity) and SOLIDIFICATION agent or absorbent (e.g., cement, urea formaldehyde).

The Semiannual Radioactive Effluent Release Report to be submitted within for days after January 1 of each year shall include an annual summary of hourly

# SEMIANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT (Continued)

meteorological data collected over the previous year. This annual summary may be either in the form of an hour-by-hour listing on magnetic tape of wind speed, wind direction, atmospheric stability, and precipitation (if measured), or in the form of joint frequency distributions of wind speed, wind direction, and atmospheric stability.\* This same report shall include an assessment of the radiation doses due to the radioactive liquid and gaseous effluents released from each unit during the previous calendar year. This same report shall also include an assessment of the radiation doses from radioactive liquid and gaseous effluents to MEMBERS OF THE PUBLIC due to their activities inside the SITE BOUNDARY (Figure 5.1-1) during the report period. All assumptions used in making these assessments, i.e., specific activity, exposure time, and location, shall be included in these reports. Historical annual average meteorological conditions or the meteorological conditions concurrent with the time of release of radioactive materials in gaseous effluents, as determined by sampling frequency and measurement, shall be used for determining the gaseous pathway doses. assessment of radiation doses shall be performed in accordance with the methodology and parameters in the OFFSITE DOSE CALCULATION MANUAL (ODCM).

The Semiannual Radioactive Effluent Release Report to be submitted within 60 days after January 1 of each year shall also include an assessment of radiation doses to the likely most exposed MEMBER OF THE PUBLIC from reactor releases and other uranium fuel cycle sources within 8 km, including doses from primary effluent pathways and direct radiation, for the previous calendar year to show conformance with 40 CFR Part 190, "Environmental Radiation Protection Standards for Nuclear Power Operation." Acceptable methods for calculating the dose contribution from liquid and gaseous effluents are given in Regulatory Guide 1.109, Rev. 1, October 1977.

The Semiannual Radioactive Effluent Release Reports shall include a list and description of unplanned releases from the site to UNRESTRICTED AREAS of radioactive materials in gaseous and liquid effluents made during the reporting period.

The Semiannual Radioactive Effluent Release Reports shall include any changes made during the reporting period to the PROCESS CONTROL PROGRAM (PCP) and to the OFFSITE DOSE CALCULATION MANUAL (ODCM), pursuant to Specifications 6.12 and 6.13, respectively, as well as any major change to Liquid, Gaseous, or Solid Radwaste Treatment Systems pursuant to Specification 6.14. It shall also include a listing of new locations for dose calculations and/or environmental monitoring identified by the Land Use Census pursuant to Specification 3.12.2.

<sup>\*</sup>In lieu of submission with the Semiannual Radioactive Effluent Release Report, the licensee has the option of retaining this summary of required meteorological data on site in a file that shall be provided to the NRC upon request.

# SEMIANNU RADIOACTIVE EFFLUENT RELEASE REPORT (Continued)

The Semiannual Radioactive Effluent Release Reports shall also include lowing: an explanation as to why the inoperability of liquid or gaseous efficient monitoring instrumentation was not corrected within the time specified in appelification 3.3.3.9 or 3.3.3.10, respectively; and description of the events leading to liquid holdup tanks or gas storage tanks exceeding the its of Specification 3.11.1.4 or 3.11.2.6, respectively.

#### PERATING REPORTS

ine reports of operating statistics and shutdown experience,
umentation of all challenges to the PORVs or safety valves,
mitted on a monthly basis to the Director, Office of Resource
U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, with a
Regional Administrator of the Regional Office of the NRC, no later
than the of each month following the calendar month covered by the report.

# RADIAL PEAKING FACTOR LIMIT REPORT

h.s.i.6 The  $F_{xy}$  limits for RATED THERMAL POWER ( $F_{xy}$ ) shall be established for at least each reload core and shall be maintained available in the Control Room. The limits shall be established and implemented on a time scale consistent with normal procedural changes.

The analytical methods used to generate the fixy limits shall be those previously reviewed and approved by the NRC\*. If changes to these methods are deemed necessary they visible evaluated in accordance with 10 CFR 50.59 and submitted to the NRC for review and approval prior to their use if the change is determined to involve an unreviewed sifety question or if such a change would require amendment of previously submitted documentation.

A report containing the  $F_{xy}$  limits for all core planes containing 8ank "D" control rods and all unrodded core planes along with the plot of predicted  $F_{Q}^{T}$  Prel vs axial core height (with the limit envelope for comparison) shall be provided to the NRC Document Control desk with copies to the Regional Administrator and the Resident Inspector within 30 days of their implementation.

# SPECIAL REPORTS

6.8.2 Special reports shall be submitted to the Regional Administrator of the Regional Office of the NRC within the time period specified for each report.

<sup>\*</sup>WJA? 8385 "Power Distribution Control and Load Following Procedures" and WCAP 5272. "Westinghouse Reload Safety Evaluation Methodology."

#### 6.9 RECORD RETENTION

- 6.9.1 In addition to the applicable record retantion requirements of Title 10, Code of Federal Regulations, the following records shall be retained for at least the minimum period indicated.
- 6.9.2 The following records shall be retained for at least 5 years:
  - Records and logs of plant operation covering time interval at each power level;
  - Records and logs of principal maintenance activities, inspections, repair, and replacement of principal items of equipment related to nuclear safety;
  - c. All REPORTABLE EVENTS;
  - Records of surveillance activities, inspections, and calibrations required by these Technical Specifications;
  - e. Records of changes made to the procedures required by Specification 6.7.1;
  - f. Records of radioactive shipments;
  - g. Records of sealed source and fission detector leak tests and results; and
  - Records of annual physical inventory of all sealed source material of record.
- 6.9.3 The following records shall be retained for the duration of the plant Operating License:
  - Records and drawing changes reflecting plant design modifications made to systems and equipment described in the Final Safety Analysis Report;
  - Records of new and irradiated fuel inventory, fuel transfers, and assembly burnup histories;
  - Records of radiation exposure for all individuals entering radiation control areas;
  - d. Records of gaseous and liquid radioactive material released to the environs;
  - Records of transient or operational cycles for those plant components identified in Table 5.7-1;
  - f. Records of reactor tests and experiments;
  - g. Records of training and qualification for current members of the plant staff;

#### RECORD RETENTION (Continued)

- Records of inservice inspections performed pursuant to the e Technical Specifications;
- Records of quality assurance activities required by the Final Safety Analysis Report;
- j Records of reviews performed for changes made to procedures or equipment or reviews of tests and experiments pursuant to 10 CFR 50.59;
- k. Records of meetings of the PRB and the SRB;
- Records of the service lives of all hydraulic and mechanical snubbers required by Specification 3.7.8 including the date at which the service life commences and associated installation and maintenance records;
- m. Records of secondary water sampling and water quality; and
- n. Records of analyses required by the Radiological Environmental Monitoring Program that would permit evaluation of the accuracy of the analysis at a later date. This should include procedures effective at specified times and QA records showing that these procedures were followed.

#### 6.10 RADIATION PROTECTION PROGRAM

6.10.1 Procedures for personnel radiation protection shall be prepared consistent with the requirements of 10 CFR Part 20 and shall be approved, maintained, and adhered to for all operations involving personnel radiation exposure.

#### 6.11 HIGH RADIATION AREA

- 6.11.1 Pursuant to paragra, h 20.203(c)(5) of 10 CFR Part 20, in lieu of the "control device" or "alarm signal" required by paragraph 20.203(c), each high radiation area, as defined in 10 CFR Part 20, in which the intensity of radiation is greater than 100 mrem/hr but less than 1000 mR/h at 45 cm (18 in.) from the radiation source or from any surface which the radiation penetrates shall be barricaded and conspicuously posted as a high radiation area and entrance thereto shall be controlled by requiring issuance of a Radiation Work Permit (RWP). Individuals qualified in radiation protection procedures (e.g., Health Physics Technician) or personnel continuously escorted by such individuals may be exempt from the RWP issuance requirement during the performance of their assigned duties in high radiation areas with exposure rates greater than 1000 mrem/hr but less than 1000 mR/h, provided they are otherwise following plant radiation protection procedures for entry into such high radiation areas. Any individual or group of individuals permitted to enter such areas shall be provided with or accompanied by one or more of the following:
  - a. A radiation monitoring device which continuously indicates the radiation dose rate in the area; or

# 6.11 HIGH RADIATION AREA (Continued)

- b. A radiation monitoring device which continuously integrates the radiation dose rate in the area and alarms when a preset integrated dose is received. Entry into such areas with this monitoring device may be made after the dose rate levels in the area have been established and personnel have been made knowledgeable of them; or
- An individual qualified in radiation protection procedures with a radiation dose rate monitoring device, who is responsible for providing positive control over the activitie: within the area and shall perform periodic radiation surveillance at the frequency specified by the Health Physics Superintendent in the RWP.

6.11.2 In addition to the requirements of Specification 6.11.1, areas accessible to personnel with radiation levels greater than 1000 mR/h at 45 cm (18 in.) shall be radiation source or from any surface which the radiation penetrates shall be maintained under the administrative control of the shift Foreman on duty and/or health physics supervision. Doors shall remain locked except during periods of access by personnel under an approved RWP which shall specify the time for individuals in that area. In lieu of the stay time specification of surveillance may be made by personnel qualified in radiation protection procedures to provide positive exposure control over the activities being performed within the area.

For individual high radiation areas accessible to personnel with radiation levels of greater than 1000 mR/h that are located within large areas, such as PWR containment, where no enclosure exists for purposes of locking, and where no enclosure can be reasonably constructed around the individual area, that individual area shall be barricaded, conspicuously posted, and a flashing light shall be activated as a warning device.

# 6.12 PROLESS CONTROL PROGRAM (PCP)

- 6.12.1 The PCP shall be approved by the Commission prior to implementation.
- 6.12.2 Licensee-initiated changes to the PCP:
  - a. Shall be submitted to the Commission in the Semiannual Radioactive Effluent Release Report for the period in which the change(s) was made. This submittal shall contain:
    - Sufficiently detailed information to totally support the rationale for the change without benefit of additional or supplemental information;
    - 2) A determination that the change did not reduce the overall conformance of the solidified waste product to existing criteria for solid wastes; and

# 6.12 PROCESS CONTROL PROGRAM (PCP) (Continued)

- Documentation of the fact that the change has been reviewed and found acceptable by the PRB.
- b. Shall become effective upon approval by the General Manager-Nuclear Plant.

## 6.13 OFFSITE DOSE CALCULATION MANUAL (ODCM)

- 6.13.1 The ODCM shall be approved by the Commission prior to implementation.
- 6.13.2 Licensee-initiated changes to the ODCM:
  - a. Shall be submitted to the Commission in the Semiannual Radioactive Effluent Release Report for the period in which the change(s) was made effective. This submittal shall contain:
    - Sufficiently detailed information to totally support the rationale for the change without benefit or additional or supplemental information. Information submitted should consist of a package of those pages of the ODCM to be changed with each page numbered, dated and containing the revision number, together with appropriate analyses or evaluations justifying the change(s);
    - 2) A determination that the change will not reduce the accuracy or reliability of dose calculations or Setpoint determinations; and
    - Documentation of the fact that the change has been reviewed and found acceptable by the PRB.
  - b. Shall become effective upon approval by the General Manager-Nuclear Plant.
- 6.14 MAJOR CHANGES TO LIQUID, GASEOUS, AND SOLID RADWASTE TREATMENT SYSTEMS\*
- 6.14.1 Licensee-initiated major changes to the Radwaste Treatment Systems (liquid, gaseous, and solid):
  - a. Shall be reported to the Commission in the Semiannual Radioactive Effluent Release Report for the period in which the evaluation was reviewed by the PRB. The discussion of each change shall contain:
    - A summary of the evaluation that led to the determination that the change could be made in accordance with 10 CFR 50.59;
    - 2) Sufficient detailed information to totally support the reason for the change without benefit of additional or supplemental information;

<sup>\*</sup>Licensees may choose to submit the information called for in this Specification as part of the annual FSAR update.

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# 6.14 MAJOR CHANGES TO LIQUID, GASEOUS, AND SOLID RADWASTE TREATMENT SYSTEMS (Continued)

- 3) A detailed description of the equipment, components, and processes involved and the interfaces with other plant systems;
- An evaluation of the change, which shows the predicted releases of radioactive materials in liquid and gaseous effluents and/or quantity of solid waste that differ from those previously predicted in the License application and amendments thereto;
- An evaluation of the change, which shows the expected maximum exposures to a MEMBER OF THE PUBLIC in the UNRESTRICTED AREA and to the general population that differ from those previously estimated in the License application and amendments thereto:
- A comparison of the predicted releases of radioactive materials, in liquid and gaseous effluents and in solid waste, to the actual releases for the period prior to when the change is to be made;
- 7) An estimate of the exposure to plant operating personnel as a result of the change; and
- Documentation of the fact that the change was reviewed and found acceptable by the PRB.
- b. Shall become effective upon approval by the General Manager-Nuclear Plant.