Eswartzwelder	Vogtle Electric Gener NUCLEAR OPERATIONS	ating Plant	Procedure No. 10011-C Revision No.
7-5-99	Unit COMMON	Georgia Power	13
1-2-01		Georgianonei	1 of 35
OPEI	RATIONS PROCEDURE PR	READ AND DESTR	OY OS-131-91
1.0	<u>purpose</u> FO	R INFORMATION C	DNLY
	This procedure is Operations Departm procedures. Topic sections:	to provide guidance for ent procedures and revi s are as contained in t	preparing ewing plant the following
	2.0 Operations Provide Augualification	ocedure Writer/Reviewer s	
	3.0 Procedure Wri	ting Guide	
	4.0 Writing Techn	ique	
	5.0 Reviews		
2.0	OPERATIONS PROCEDU	RE WRITER/REVIEWER QUAL	IFICATIONS
2.1	Operations Departme have a minimum of maximum of 4 years by related technic	ent promedure writers/r 5 year of power plant of to requirement ma al and or academic trai	eviewers must experience. A y be fulfilled ning.
2.2	A Procedure Writer (Figure 1) shall be procedure writer/re	/Reviewer Qualification e completed for each op eviewer.	Checklist erations
2.3	Disposition of the	completed checklist is	as follows:
	a. Original to Do permanent reco	ocument Control for fil ord,	ing as a
	<li>b. Copy to the St insertion in file.</li>	uperintendent, Nuclear the individual's traini	Training for ng record
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#### PROCEDURE WRITING GUIDE

This section provides specific detailed guidance for writing and handling Operations Department procedures. The general guidance contained in 00050-C, "Procedure Development", should be followed for all procedures except as modified in this section.

- 3.1 GENERAL
  - a. Unit Operating Procedures (UOP), System Operating Procedures (SOP), Operations Surveillance Procedures (OSP), Forms/Data Sheets (F/DS) and Annunciator Response Procedures (ARP) should follow this general guidance. A separate procedure applies to the writing of Emergency Operations Procedures (EOP) and Abnormal Operating Procedure: (AOP),
  - b. Before starting to write a procedure, the writer should determine if the document is needed. He should determine if the instructions are covered in another procedure, or if it should be a different type of procedure. He should also determine, for example, if just the lineup will be sufficient, or the SOF needs no lineup, or what forms are needed.

#### 3.1.1 Definitions

a. Status

The status of a system may be secured, standby or operating. Each level is independent, and a system can be brought to operating status without going through the standby status.

b. Secured

The condition of a system when it is incapable of operating. Equipment is not necessarily isolated and ready for maintenance. The equipment breakers may be racked out, or the control switch may be off. If the system has an automatic initiation the system is shut down and the automatic initiation is prevented.

c. Standby

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The condition of an operable system when it is ready to perform its intended function,

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#### d. Operating

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The condition of a system when it is actively performing its intended function.

3.1.2 Formats

Formats should generally conform to 00050-C, "Procedure Development" guidance. Specific sections to be used when writing a UOP, or SOP are set forth below. Other types of procedures will vary from this format as described later. Prepare preliminary drafts of procedures in the same format as that desired for typing.

#### 3.1.2.1 1.0 PURPOSE

Provide a clear, concise statement of what the procedure is to accomplish. If the INSTRUCTION section contains more than three major objectives (e.g., Startup Of The XYZ System, Shifting High Pressure Pumps, Shutdown Of The High Pressure Unit, Shutdown Of The XYZ System, Filling The EHC Reservoir) list these objectives by sub-instruction title.

### 3.1.2.2 2.0 PRECAUTIONS AND LIMITATIONS

This subsection should be divided into two sections as follows:

#### a. Precautions

Precautions are the cautionary notes that are intended to protect equipment and personnel or to avoid an abnormal or emergency situation.

Precautions listed should apply to the entire procedure. Place cautionary notes that apply to a portion of a procedure immediately preceding the step for which they are applicable and on the same page,

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#### b. Limitations

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This section contains operating limits and Technical Specification limits that shall not be exceeded during the performance of the procedure. Specify limitations on the parameters being controlled and appropriate corrective measures to return the parameter to normal control band, where applicable, in the Main Body.

# 3.1.2.3 3.0 PREREQUISITES OR INITIAL CONDITIONS

Prerequisites or initial conditions will identify those independent actions or procedures which must be completed or those plant conditions which must exist prior to use. Frerequisites or initial conditions applicable only to certain sections of a procedure should be identified by preceding the prerequisite with a conditional statement. (e.g., Prior to reaching 350°F, Prior to starting XYZ fan, the Furbine Flant Cooling Water (TP(W) System shall be in operation.)

Prerecuisites are needed to accomplish the following:

- Establish valve and system alignments for the system under consideration,
- b. Establish operating status of systems required to support the system under consideration.
- c. Establish portions of other procedures that may be required for the system under consideration,
- d. Establish the need for Control Room notification prior to commencing an evolution.

#### 3.1.2.4 4.0 INSTRUCTION

The main body of the procedure. Concent is described separately for UOPs, SOPs, ARPs and OSPs. If an alternate train/component is being shown in parenthesis, a note should be placed following the Instruction section heading to inform the user.



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### 3.1.2.5 5.0 REFERENCE

List reference documents that may help the user of the procedure to better understand the procedure. An example of the type documents to be included in this section at, a suggested formet follows.

- 5.1 Applicable Technical Specifications or FSAR paragraphs
- 5.2 Any applicable procedures used or referred to within the procedure (i.e., If you start a pump per its appropriate procedure, then that procedure should be referenced.)
- 5.3 P&ID's (applicable to the procedure)
- 5.4 Electrical Diagrams (applicable to the procedure)
- 5.5 Elementary Diagrams (applicable to the procedure)
- 5.6 Logic Diagrams (applicable to the procedure)
- 5.7 Technical Manuals
- 5.8 Other
- 3.1.2.6 List Of Incomplete Items

List all items within a procedure which are omitted or incomplete. Place this list at the and of the procedure. This requirement applies to UOPs, SOPs, F/DS, Lineups, OSPs and ARPs.

3.2 FORMS/DATA SHEETS (F/DS)

3.2.1 F/DS Guidelines

3.2.1.1 Develop F/DS with the corresponding procedure, to have:

- a. A borderline all the way around the page with the text within the borderlines.
- b. Clear headings.
- c. Sufficient size to provide good readability,
- d. Adequate detail to prevent user error,
- 3.2.1.2 Horizontal or vertical format may be used depending upon page content and complexity. In checklists, rounds sheets and forms, procedures may be referenced by number only, not followed by the title.

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AND CONTRACTORS AND A DESCRIPTION	and the second	ne a le construir de le construir de la construir, de le construir de la construir de la construir de la constr	
3.2.2	Valve And Elec	trical Lineups (Se	e Figure 2)
3.2.2.1	Lineups are wr between the al operating conf number in pare lineup column.	itten for normal of ignment for startu iguration are show nthesis placed jus	peration. Difference p and the normal n by footnutes with t to the left of the
3.2.2.2	Handswitches w the SOP. Air alignments to	ill normally be lin operated valves ar verify that air is	sted on checklists i a included in available.
3.2.2.3	The sequence m associated SOP Electrical Dis alignment 1140 System Alignmen lineup and no	umber of the lineur . For example: 13 tribution System" v 5-1, "125V DC 1E E1 nt". In some cases associated SOP.	o is the same as the 1405-1, "125V DC 1E would correspond wit lectrical Distributi there may only be
3.2.2.4	Order component application, ea an operator can equipment damage component by per- alignment to ex- the component of for system or o	ts in accordance wi quipment complexity n take. Minimize t ge during startup o erforming the valve hsure flowpath pric or its control circ component shutdown.	th the procedure , safety and the pa the potential for of a system or or mechanical or to placing power ouitry, and vice ver
3.2.2.5	Valves inaccess such as radiati due to (conditi	sible due to locati ion levels are anno ion)".	on or plant conditi tated as "inaccessi
3.2.2.6	Valves and breatheir tags:	akers should be des	cribed as given on
	a. List valve	es by area and flow	path,
	b. Breakers:		
	(1) List cabir 1BA03	each breaker by it net/cubicle number 119, Bus 1BA03 FMER	s engraved and description, (e. INCM BRKR),
	(2) Prior volta	itize switchgear s ige.	tarting with highest
	If a revision c	hanges a component	's required condition

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3.3	UNIT	OPER.	ATING PROCEDUR	ES (UOP)	-
3.3.1	UOF	Numbe	ring		
	UOP' Deve	s sha lopmer	11 be numbered nt".	per 00050-	C, "Procedure
3.3.2	UOP	Forma	t		
	۵.	UOP'	s should be wr	itten as co	umon procedures,
	ь.	UOP	format is as g	iven in Sub	-subsection 3.1.2,
	с.	Instr the r syste	ructional step right hand mar ematically wor	s may have gin to allo k through t	a sign off space in w the user to he procedure,
	d.	UOP's incor compl Suppo from indic proce	a may duplicate porating step leted by opera- ort required on any other fund- cated by refere dure,	e parts of s into the tors in the utside of t ctional gro ence to the	other procedures by UOP that can be Control Room. he Control Room or up should be applicable
	е.	Unit refer proce refer	designators sh encing or bran dures. Common enced as XXXX	hould be om hching to un h unit proce k-C,	itted when hit specific edures will be
	f.	Unit ident equip 1 and	designators sh ifying equipme ment or compor Unit 2,	nould be om ent or compo nent numbers	itted when onents unless the s differ between Uni
		(1)	The preferred differences ar	methods for e illustrat	distingulshing uni ted below.
			Multiple compo	onenta - Tal	le form
			EXAMPLE :		
			UNIT 1	UNIT	2
			1 - HV - XXXX 1 - LV - XXXX 1 - 1 3 0 1 - U4 - XXX	2-HV- 2-LV- 2-130	XXXX XXXX 1-U4-XXX
			Single compone sentence	nts referen	ced within a
			EXAMPLE:		
			OPEN XXXX pump UNIT 1: 1-HV-	suction is XXXX or UNI	clation valve T 2: 2-HV-XXXX

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3.4 SYSTEM OPERATING PROCEDURES (SOP)

3.4.1 SOP Numbering:

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- SOPs are numbered per 00050-C, "Procedure Development",
- b. SOPs have separate Unit 1 and Unit 2 procedures if there is different equipment for each unit,
- c. They are common procedures if the equipment is common, or shared, between Unit 1 and Unit 2,

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- d. If the system is a combination of shared and unit specific equipment, one procedure deals with the Unit 1 and Common parts of the system. The other procedure deals with the Unit 2 equipment.
- 3.4.2 SOP Format
- 3.4.2.1 In addition to guidance in Sub-subsection 3.1.2, the SOP format includes:
  - 4.0 INSTRUCTION

This section contains the detailed instructions to operate the system. The sections do not need to be in the order listed below but should include applicable steps. Some format guidelines are:

- a. Instructional steps are sequentially numbered for major steps and alphabetically designated for lists within substeps.
- Indent each subsection as in Figure 3, 00050-C, "Procedure Development",
- c. Section headings have all capitals and underlined, subsection headings all capitals, and sub-subsection headings the first letter in each word capitalized. Steps of a section have the first letter of the first word capitalized,
- d. Start major logical breaks within the procedure at the top of a new page.

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#### 3.4.2.2 Startup

This section of the SOP provides detailed, step by step instructions for taking a system from a low status level (toward non-operating) to a higher status level (toward operating). This section should contain subsections that provide for each planned method of startup. The sequence of the subsection should take the system from the second status, through standby, if applicable, to the operating status.

Title each subsection so the title indicates the nature of the evolution. For example: "Startup to Standby". "Startup to Full Operation".

Certain systems may not have an overall startup but instead have startups of individual components. Also, individual components within a system may have startups and shutdowns. In such cases, prepare a subsection for each individual component startup. Examples include startup of a demineralizer, a hydrogen recombiner, and . a fan unit within a HVAC System.

#### 3.4.2.3 System Operation

This section contains the instructions for acceptable methods of system operation. Such instructions are necessary when operational steps are anticipated and such steps do not change the operational status of the system. Such steps alter the operation but maintain the system in an operation status. Examples of such operations include shifting pumps, shifting suctions, shifting between normal power supplies, etc.

This section contains subsections for each type of operation and provides for altering the operation in either direction. For example, a subsection that shifts a suction from its normal source to an alternate source followed by a subsection that shifts the suction from the alternate source to the normal source.



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#### 3.4.2.4 Shutdown

This section of the SOP contains the instructions for taking a system from a higher status to a lower status. As appropriate to the system, subsections provide for automatic shutdown, full operation to standby, standby to full shutdown and manual shutdown from full operation.

An interface exists between SOPs and Emergency Operating Procedures with respect to shutdown following an automatic startup from standby. The EOP may include instructions for securing operation of the system following automatic startup. However, such instruction is typically limited to a few steps to shut down the system. For this reason, an SOP is needed for the shutdown from operation to standby. This permits the EOP to deal solely with the plant emergency and allows use of the SOP for restoring the system to standby.

For an SOP having individual component startup subsections, provide a corresponding component shutdown subsection.

3.4.2.5 Non Periodic Operation

This section of the SCP provides detailed instruction on unusual or off-normal operations. These operations do not fit the other sections of the SOP. They may pertain to a method of operation other than the design functions of the system. Examples of non Periodic Operations include filling the cooling tower basin, venting pumps, operating on the bypass, etc.

- 3.4.3 Checklists
- 3.4.3.1 Checklists are used to list and provide sign-off space for system handswitch alignment.
- 3.4.3.2 Where independent verification is required for more than a few valve positions, provide a checklist with sign-off spaces.
- 3.5 OPERATIONS SURVEILLANCE PROCEDURE (OSP)
- 3.5.1 OSP Numbering

OSP's shall be numbered per 00050-C. "Procedure Development".

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3.5.2 OSP Format

a. Title

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The title of the procedure appears on Page 1,

- b. Purpose
  - (1) State the purpose of the procedure in a clear, unambiguous manner. The user should be able to determine the intent of the procedure without reading the entire procedure.
  - (2) As appropriate, list the following information:
    - (a) Identification of the component(s)/ system(s) that the surveillance includes,
    - (b) The frequency of the surveillance,
    - (c) The Surveillance Requirements of the Technical Specifications that are implemented, if applicable,
    - (d) The ASME Section XI requirements of the Inservice Test Program that are to be satisfied by the OSP, if applicable.
- c. Applicability

State the plant conditions or operational mode(s) which require the applicable systems/components to be operable,

- d. Precautions and Limitations
  - Identify and warn the user of any personal safety hazards, radiation hazards, equipmenc operating problems, or effects on plant safety which might arise during the performance of the CSP.
  - (2) See also paragraph 3.1.2.2.

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	е.	Prer	equi	sites or	Initial C	onditio	ns	
		Incl perf init Thes	ude orman ial d e ite	those itence of the condition ems may i	ems to be le OSP. Ea l shall ha nclude:	satisfi ch prer ve a si	ed prior to equisite or gn=off space.	
		(1)	Alig	nment/Op ystems,	eration o or compon	f sppro ents,	priate systems,	
		(2)	Veri incl envi	fication uding su ronmenta	that per itable or 1 condition	tain co contro ons,	nditions exist, lled	
		(3)	Veri affe jeop	fication ct other ardize p	that the tests cu lant opera	propos rrently ation,	ed test does not in progress or	
		(4)	Auth perf	orizatio orm the	n from the test,	e Shift	Supervisor to	
		(5)	Adeq equi	uate and pment, in	appropria ncluding	ate spe identif:	cial test ication number,	
		(6)	Comm	unication	ns establi	ished as	required.	
	£.	Instr	ucti	onal Ste	рв			
		(1)	Stru leve grou lA") whic step oper loca	cture the ls, thes p of proc , followe h carry o s in 1 lo ations th tion,	e instruct ading whic cedural st ed by a se out the go ogical ord hat can be	ional s th state teps (") ries of pal. Pu ler, gro perfor	section on two as the goal of a isolating SI Pump action steps at the action ouped together by med at one	
		(2)	Link an or to th	importar nitted st he user,	nt steps t tep will b	o other e immed	actions so that liately apparent	
		(3)	When respo the	appropri onse und step whic	late state method of sh will ca	the an observ use the	ticipated ation prior to response,	
		(4)	Addre poss: resul delay be se	ess only lble. Cl lt in a s 7, state ten,	one actio early ide ystem res the time	n per s ntify a ponse. until e	tep when ctions which If there is a response will	

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		(5)	Place warning immediately b Clearly ident	s, caution efore the ify them f	s, or notes first applicable ste or the user,
		(6)	Steps may have mangin to all procedure syst place within	e a sign-c ow the use tematicall the proced	ff space in the righ r to work through the y and to locate his ure at any time,
		(7)	Address system and/or component testing.	n, instrum ant restor	ent channel, equipmen ation at completion
	g.	Acce	ptance Criteria	2	
		(1)	State clearly criteria to be	and conci used to	sely the acceptable evaluate the results,
		(2)	Structure the each component so that the pr operability of or trains duri	acceptanc , system ocedure m individu ng non pe	e criteria to address or train as applicabl sy be used to prove al components, system riodic testing,
		(3)	Use quantitati possible. Whe quantify accep qualitative cr	ve accept. re it is n tance crim iteria.	nnce criteria when not possible to teria, establish clea
	h.	Eval	uation and Revi	ew	
		(1)	Note results o performance, i not met.	btained th .e., accep	nrough test otance criteria met o
		(2)	Identify corre any reports su	ctive acti bmitted.	ons taken, including
	<b>i</b> .	Refe	rences		
		As d	escribed Ste	p 3.1.2.5.	
3.5.3	USP (	Conter	nt		
	a.	The contract of the second sec	bjective of the mentation shou or before draft illance Require fications are dure. Review rements of the	e procedur ld be clea ing begins ement(s) o to be impl for any AS Inservice	e and method of rly understood by the . Be aware of which f the Technical emented by the ME Section XI Test Program that

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				and the second decision in the second state of the
	b.	Take i the in organi proced	nto account not only tended user, but also zational constraints o ure performance,	the qualifications of any physical or which may affect
	с.	Use mo freque	re detail for procedu: ntly,	res which are used less
	d.	Conside	er the number of personance of the procedure	onnel required for the e,
	е.	Prepare	e the procedure to end s unaffected during pr	sure plant safety cocedure performance.
	£.	Use NO cause a of that	TES or CAUTIONS prior an ESFAS or RFS actuat t fact,	to steps that will tion to alert operator
	g .	The pro Specifi applics determi	ocedure shall identify ications' Limiting Cor able if a system and/c ined inoperable by the	all Technical ditions for Operation or component is surveillance.
	h.	Unless Specifi writter time,	otherwise required to loation requirement, a to test one componen	, satisfy a Technical all OSPs shall be at/system train at a
	í.	Blanks signatu surveil review,	shall be provided for tres of individuals pe lance and performing	dates, times and rforming the the supervisory
	į.	A blank number,	shall be provided fo	r M&TE equipment
	k.	Indapen require colicy"	dent verifications sh d by 00308-C, "Indepe ,	all be provided for as ndent Verification
	1.	Install liftæd locatio when in verific	ation and removal of wires shall be docume n, notification of th stalled/removed and is ation per Step j above	temporary jumpers and nted including e Shift Supervisor ndependent e,
	m.	Frovisi body of The wet shall b	ons for data collection the procedure or on hod used to derive ten e provided,	on may be made in the separate attachments. st data or results
	n.	These p and free respons plant s	rocedures develop adm quencies for Operation ible surveillances, in urveillance tracking a	inistrative controls ns Department n accordance with the system.

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# 3.6 ANNUNCIATOR RESPONSE PROCEDURES (ARP)

This guide provides criteria and instructions for the preparation of ARP's for responses to mitigate single specific annunciated alarms. Multiple alarms usually indicate abnormal or emergency situations covered in AOPs or EOPs.

3.6.1 ARP Numbering

Number ARPs per 00050-C, "Procedure Development". The seventeen thousand indicates the ARP series and the last two digits are the Annunciator Light Board (ALB) number.

3.6.2 Assembly of Procedures

All of the ARP sub-procedures for one ALB are contained in one procedure. Each procedure contains a title page, ALB drawing, and ARP sub-procedure index.

#### 3.6.2.1 Title Page

- a. The title page identifies the ALB, and has a drawing of its relative location in the Control Room. The page also has a statement of the procedure purpose.
- b. The title page is numbered as Page 1.
- 3.6.2.2 ALB Drawing
  - a. Include a drawing showing all of the annunciator windows for the ALB in the procedure. Label each annunciator window just as it appears on the ALB,
  - b. The light board drawing is Page 2.
- 3.6.2.3 ARP Sub-procedure Index
  - a. Each ARP includes an ARP Sub-procedure Index. The index lists the annunciator window coordinates, title, and procedure page number of each sub-procedure. Blank annunciator window numbers are included in the index, however, the title and page number sections are left blank.

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	b. Number index pages sequentially as part of the procedure starting with Page 3.
3.6.3	ARP Sub-procedure
3.6.3.1	Content and Detail:
	<ul> <li>A good ARP Sub-procedure is concise and identifie what to check and what to co,</li> </ul>
	b. Each step reflects one operator action. O der steps in operating sequence. When a step is listed for clearing an alarm, follow it with a verification step and one describing what to do it the anticipated result does not occur.
	ARP may interface with UOP, SOP, AOP and EOP. If the ARP Sub-procedure can be complete but not lengthy without reference to other procedures, do not refer to other procedures. If the step involves an action that the operator is expected to know other procedures need not be referenced. However, if the ARP Sub-procedure involves complex actions that are described in mother procedure, that other procedure should be referenced,
	d. ARPs generally prescribe actions for mitigating a single specific alarm. When the alarm indicates a plant abnormal or emergency condition, the appropriate EOP or AOP should be referenced and relied upon. ARP should not attempt to deal with plant emergencies,
	e. ARPs direct the operator to Emergency Response procedure 91001-C, "Emergency Classification and Implementing Instructions", when applicable.
3.6.3.2	Title
	a. Write the title of each ARP Sub-procedure at its position in the window illustration. The title shall be the same as the angraving on the actual alarm window. Capitalization, abbreviations, and acronyms will duplicate the engravings,
	b. ALB windows are identified by an alpha-numeric coordinate, e.g.: A01, A02, B01. The top left

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#### 3.6.3.3 Setpoint and Origin

Each sub-procedure should provide a list of the origins which may cause the actuation of an alarm. For the actual alarm setpoints the operator may be referred to the Master Setpoint Document.

#### 3.6.3.4 Probable Cause

- a. This section should list, in order of probability, the conditions likely to have caused the alarm. Only the reasonably probable causes should be listed.
- b. For alarms that actuate as a result of any of several alarm conditions at a remote panel (i.e. Liquid Waste Panel-Trouble), each specific condition that may have caused the alarm need not be listed. For these alarms, the cause of the alarm section should state that one of the alarms for the specific panel has actuated and provide reference to the appropriate ARP.

#### 3.6.3.5 Automatic Actions

This section lists automatic actions that should have occurred at the actuation of the alarm. If further automatic actions may follow, this section should so state.

#### 3.6.3.6 Initial Operator Actions

- a. This section should contain only those steps which need to be performed quickly and with high priority to:
  - (1) Prevant equipment damage or plant trip,
  - Mitigate degradation of safety related systems,
  - (3) Respond to a personnel safety hazard.
- b. When the alarm condition is covered by an EOP or AOP, this section should refer to, not duplicate it,
- c. If there are no Initial Actions, then this section should state "NONE".

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### 3.6.3.7 Subsequent Operator Actions

This section should list those steps that do not need to be performed quickly and with high priority. This cection is used to state the method for returning the system to normal operation or, in the event return to normal is delayed or prevented, the steps to minimize the consequences of the alarm conditions. If no subsequent operator actions are necessary, this section should state "NONE."

#### 3.6.3.8 Compensatory Operator Actions

This section should list any applicable operator actions and their frequency to be performed when the annunciator has been disabled.

If no compensatory actions are necessary, this section should state "NONE".

3.6.3.9 References

A list of the major references used to prepare the sub-procedure should be included at the bottom of the last page. This list need not include all references used in the research and writing of the sub-procedure but should include reference to plant drawings or technical manuals that show the plarm actuation circuitry and associated setpoin.(s).

#### 4.0 WRITING TECHNIQUE

4.1 PUNCTUATION

Use punctuation only where necessary to aid reading and prevent misunderstanding. Select wording to require minimum punctuation. If extensive punctuation is required, rewrite or separate into several sentences.

4.1.1 Use hyphens sparingly. Restructure compound words to avoid hyphenation, if possible. Use hyphens in the following circumstances:

- a. In compound numerals from twenty-one to ninety-nine. Example: One hundred thirty-four,
- b. In fractions, which cannot be avoided Examples: One-half, two-thirds, three sixty-fourths.

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self-lubricated.

- d. Where misleading or awkward consonants would result by joining the words. Example: bell-like,
- e. To avoid confusion with another word. Examples: re-cover to prevent confusion with recover, pre-position to avoid confusion with preposition,
- f. Where a letter is linked with a noun. Examples: X-ray, O-ring, U-bolt, I-beam,
- g. To separate chemical elements and their atomic weight. Examples: Uranium-235, U-235.

#### 4.1.2 Apostrophe

Use an apostrophe to indicate the possessive form of a noun. Example: "The company's audit plan ..." Use an apostrophe to indicate plural of letters and figures. Examples: PM's, Form 4's.

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4.1.3 Brackets

Use brackets when two or more parenthetic phrases are in the same sentence.

4.1.4 Colon

Use a colon to indicate something is to follow. Example: Restore cooling flow as follows:

4.1.5 Comma

Distant.

Use of many commas is an indication that the instruction is too complex and needs to be rewritten. Use commas for the following:

- a. Before "and" or "or" in a series of three or more. Example: a, b, and c.
- b. To separate five or more digits. Examples: 14,500; 1,600,000.
- c. After introductory phrases or clauses when necessary for clarity or ease of reading. Example: When level decreases to 60 inches, start pump . .

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and the contract of the second s	10011-C		13	20 of 35
				na anna an an an an Anna ann an Anna a
4.1.6	Dash			
	Do not us nu bere.	e uashes	except within procedur	e and component
4.1.7	.arenthes	e s		
	Parenthes	es are us	ed to:	
	a. Set mate that inclualte:	off suppl rial when usually usion of r the mean	ementary, parenthetic, the interruption is u indicated by commas an such material does not using of the sentence,	or explanatory ore marked than d when the essentially
	Exam	ples: (1)	Effluent points (ven drains, or other lin	t, es) may require
		(2)	The Chemical and Vol System (CVCS) should	ume Control
	b. Enclo	se numer:	als or letters in a se	ries.
	2× any	le: Tha	reasons for flushing	are:
		(1) (2)	To reduce equipment To meet legal requir	damage, and ements.
	c. Indic instr equip table set. is wr secti	ate the source of the source o	lternate train's comp lealing with two simil or three or more simil ists or separate sect xplaining the use for the beginning of the	onents for ar sets of ar sets use ions for each the procedure instructions
	Examp	1e:		
			NOTE	
		This proc Train A d designati parenthes	edure is written using esignations. Train B ons are shown in es.	5
4.1.8	Period			
	Use a abbre at th indic	period a viations C and of ating the	t the end of complete for No. (number) and i paragraph numbers, and decimal place in numb	sentences, with n. (inches), for ers.

	PREVIDION IPAGENO.					
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4.1.9	Quotation Marks					
	Avoid using quotation marks. Where jargon or figurative language must be used, the first use on should be set off with quotation marks. Use when making direct quotations, such as from a tech spec to indicate a title of a referenced procedure.	1y				
4.1.10	Semicolon					
	Use semicolons to set off independent clauses and run-on listing when such clauses or listings are internally punctuated with commas.	a				
4.1.11	Virgule					
	Use a virgule to indicate an "either/or" situation as a substitute for "per" in units of measure. Examples: either/or, ft/sec, lbs/hr.	and				
4.2	WRITING STYLE					
4.2.1	Abbreviations, Letter Symbols, And Acronyms					
	a. Acronyms may be used in the text portion of the procedure provided they are defined in the filluse,	he rst				
	b. Abbreviations and symbols should not be used text. They may be used in data sheets, checklists, tables, or when giving label engravings.	in				
4.2.2	Component Identification					
	Identify components by either their precise tag nomenclature (in all capital letters) or their full descriptive name (each word capitalized), followed the identification numbers.	1 by				
4.2.2.1	Precise tag nomenclature is used for lineups,					

and a desired of the second		erenten of its heat of the same state is the same	Contractor and the second	<ul> <li>A set</li> </ul>	November of the local design of the	22 OL 3:
						• A characteristic second and their investment of strategies in the proceeding of the processing of
4.2.2.2	In prov and	procedur vides ea identif	e text sier, icatio	the normal more natura n. Further	l name ma al operăt conside	y be used if it or understanding rations are:
	a.	When i descri compon- should tag un the tay the con change	t firs ptive ent num be the less t g nomen nponen i,	t appears in name follow mber. The e words that hese are cl nclature is t, initiate	In the terved by sy full des it are ablearly not not clear action	xt, use the full stem identifier a criptive name breviated on the t descriptive. I arly descriptive to have the tag
	b.	After either way to letter capital STOP th	ts fit name indica of eac ized to ized to ized to	rst use, id or number. ate valves ch word in to enhance key Pump,	(Numbers (Numbers and pane) the noun readabili	he component by s are the preferr ls.) The first should be ity. Example:
	с.	If two alterna alterna	trains tives te tra	or simila in an acti in as desc	r compone on step, ribed in	ents are indicate the Step 4.1.7c,
	d.	If thre alterns parenth separat nomencl with it	e or m tives eses t e chec ature, s trai	nore simila in an acti to set them klist with or list e n for each	r compone on step, apart. the comp ach alter step. E	ents are do not use Use either a lete tag nate component Xample:
		"START as requ	one or ired:	more NSCW	Cooling	Tower Makeup Pum
		a. Pu	mp 1,	A-HS-17	419,	
		b. Pu	mp 2,	A-HS-17	420.	
		c. Pu	mp 3,	A-HS-17	421."	
				or		
		"OPEN t the gas	he inl decay	et and out! tank align	let heade ned for s	r isolations for ervice.
		a. If is	Gas D inser	ecay Tank 1 vice:	l-1902-V6	-001, 2, 3, or 4
		(1	OPE 1-1	N the GWPS 902-U4-056,	ISO GDT	1-4 IN HDR,
		(2	OPE 1-1	N the GWPS 902-U4-077,	ISO GDT	1-4 OUT HDR,

		MEYIDION	(PANEW INW
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	b. 1	f Gas Decay Tank 1-1902- nservice:	V6-005, 6, or 7 is
	(	<ol> <li>OPEN the GWPS ISO CD 1-1902-U4-046,</li> </ol>	T 5-7 IN HDR,
	(	2) OPEN the GUPS ISO GD 1-1902-U4-071."	T 5-7 OUT HDR,
4.2.2.3	Where the passes of the system, the component may systems while the systems while the system system system structure system syst	rocedure deals entirely a system identi ier need a umbers except for any cor ch are used in this proce	with a specific not be used in mponents of other adure.
4.2.3	Definition	of Terms	
	a. Terms s sense a importa definit term,	which may be understood is should be defined as a no ant that the same term be tion by all procedures wh	In more than one ofe. It is given the same wich define the
	b. Do not users o to the procedu	assume that key terms ar of procedures. If the te proper understanding and are, define it.	e understood by all rm is fundamental luse of the
4.2.4	Directing th	ne Specific Manipulation	of Controls
	The features select the p manipulation maintain pos return. Ass switch may n desired func guidelines s for the spec	of controls must be kno oper terminology for di of control devices. Sw itional placement or may sociated circuitry may lo beed to be held in positi tion is completed. The hould be used to govern ific manipulation of con	wn in order to recting the itches may be spring ck in or the on until the following terminology trols.
	a. For a c control include control familia	ontrol, whose number is panel placard, the numb d within the instruction is so frequently used t r to all trained operato	engraved on the er should be al step unless the hat it is very rs.
	Example	: START Condensate Pump	B 1-1405-P3-002,
	b. For con functio the act	trol circuitry that exect n upon actuation of the ion verb appropriate to	utes the entire control switch, use the control device.
	Example	: CLOSE RHR PUMP A SUCT	ION VALVE

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								. War ann a' fall an an ann an
	с.	Reco	mmend	led actio	on verbs ar	eı		
		(1)	For or S	power di top,	viven rotat	ing equ	ipment:	Start
		(2)	For Thro	valves: ttle Clo	Open or C osed, Throt	lose, 1 tle,	Chrottle C	pen or
		(3)	For Sync	power di hronize,	stribution Close or 1	breake Trip,	ers:	
		(4)	For indi	supply b vidual d	oreakers and components:	d swite Close	hea to or Trip,	
		(5)	Mult (HS-)	i-positi XXX) in	on switches XX position	s: <u>Pla</u>	ice handsw	itch
		(6)	Conti 472, conti	rollers: or <u>Adju</u> rol flow	Set controll at 100 gpm	coller ler (HI	(HICXXXY) CXXXX) to	at
		(7)	For a	air oper	ated valves	: Ope	rable.	
4.2.5	Des	criptic	on of	Compone	nt Status			
	Ind	icate c	compor	nent sta	tus as:			
	a.	In Se is no opera Out o	ervice ot fur ation, of Ser	e or Out actionin For E rvice al	of Service g within th xample, a d though it i	. The e plan eminer s oper	componen t mode of alizer may able,	t is or y be
	Ъ.	Runni equip	.ng or ment,	- Shutdo	wn. The co	nditio	n of rota	ting
	с.	On Li not t	ne or ied i	Off Linto the	ne. A gene power grid	rating	unit is o	or is
	d.	On or recor	Off. ders,	Used and li	for simple ghts that a	equipm re or	ent, such are not po	as wered,
	e.	Racke switc avail	d In hgear able	or Racke . The to equip	ed Out. The switchgear pment suppl	e phys is ava ied th	ical statu ilable or ereby,	ns of not
	f.	Energ elect elect power	ized rical rical ed.	or De-er circuit buses.	nergized. ts, such as The circu	Indicat logic it is d	tes status circuits or is not	of and

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#### 4.2.6

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# Instruction Step Length And Content

Instruction steps should be concise and precise. Conciseness denotes brevity; preciseness means exactly defined. Thus, instructions should be short and exact. This is easily stated but not so easily done. Guidelines which support these objectives are as follows:

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- Paragraphs and instruction steps should deal with a . only one idea,
- Short, simple sentences should be used in b . preference to long, compound, or complex sentences,
- Complex operations should be defined in a series C. of steps. Each step should be as simple as possible.
- Verbs with specific meanin, should be used. Full capitalization of verbs will help the user to d. readily recognize the action to be taken. Examples are listed in Table 1,
- Objects of verbs should be specifically stated. e . This includes identification of exactly what is to be done and what it is to be done to,
- Limits should be expressed quantitatively whenever £. . possible. Qualitative acceptance criteria given by governing codes and standards should be described in quantitative terms if possible,
- Avoid vagueness. It is recognized by lack of g. specific meaning and it fosters different interpretations. It leads toward divergent implementation that can result in noncompliance,
- Content should be consistent with the minimum h. level of training and experience of the user. That is, the instruction should not amplify on verbs, locations of components and controls, basis for limits, or other information that the user is expected to already know.

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Name and Address of the Owner o			40 OI 33
	i. Action	steps should not app ments and notes.	ear in caution
	j. Instru requir indepe review	action steps should be red documentation, not endent verification, a or approval.	e included for any ification, report, and obtaining
4.2.7	Plant Instr	ument Values	
	a. Values measur	should be listed in the second on the	the same units of ne instrument,
	b. Values whenev	s should be listed as ver possible,	maximum and minimum
	c. Use a operat read c markin	conservative value wittor reading. Persons one-half the distance ags accurately,	thin the precision of are generally able to between instrument
	d. Minimi diffic accept	ze the use of 'approx ult to quantify and i able "band" will vary	kimately" as it is interpretation of an y from person to perso
	e. Tolera wordin	ance symbol use should ng such as "greater th	i be minimized, use nan or equal to",
5.0	REVIEWS		
5.1	PRE APPROVA	L PROCEDURE REVIEWS	
	Each Operat thorough te original au mutually re initial ref made as dee as a "Rev O	tions procedure initia chnical review by a rathor. Reviewer and a solve comments before ference revision. Sub med necessary, prior ".	al draft shall receive reviewer, not the author will then a issuing the departme osequent reviews may h to approval and issue
5.1.1	Ceneral Ins	structions	
	Reviewers s competence. their comme information errors, or ambiguous c	should exercise good They should have a ents. Comments should that will correct for improve ease of under or extraneous comments	judgement and technica valid basis for all d contain only relevan ormat and technical estanding. Avoid
5.1.1.	1 Refer to th	ne "Operations Procedu	are Review Checklist"

	and the second of the	HEY	ISION		PAGE NO.	-
and the second second	VEGP	10011-C		13	27 of 35	
				A CONTRACTOR OF THE REAL PROPERTY OF	Announcementer and an instantion in the second s	
	5.1.1.2	The Operations that OSPs (as routed to the review.	Departmer identified QC Superir	nt Procedure 1 by the QC S atendent for	Coordinator ensures uperintendent) are a hold point	
	5.2	POST APPROVAL	REVIEWS			
	5.2.1	Reviews should "Procedure Rev	be in con iew And Ap	pliance with proval".	00051-C,	
	5.2.2	Biennial revie reviews, and b attached.	ws will be e conducte	e as thorough ad referring	as initial to Checklist 2,	
	5.3	INTERDEPARTMEN	TAL REVIEW	18		
		Some Operation review by othe Coordinator is requiring a re documentation comments.	s procedur r departme responsil view by of to the rev	res may requi ents. The Op ole for ident thers, for fo viewer and fo	re a separate erations Procedure ifying procedures rwarding the r resolving	
	6.0	REFERENCES				
	6.1	PROCEDURES				
	6.1.1	00050-C, "Pro	cedure Dev	velopment"		
	6.1.2	00051-C, "Pro	cedure Rev	view And Appr	oval"	
	6.1.3	00308-C, "Ind	lependent N	Verification	Policy"	
	6.2	ANSI N18.1-197	1 "Sta Tra Pow	andard For Se ining Of Pers wer Plants"	lection And onnel For Nuclear	
	6.3	ANSI N18.7 - 1	976 "Adr Qua Opt Pla	ninistrative ality Assuran erational Pha ants"	Concrols And ce For The se Of Nuclear Power	
	6.4	USNRC Regulato Assurance Prog	ry Guide : ram Requir	1.33, Revisio rements (Oper	n 2 "Quality ation)"	
	6.5	USMRC Regulato Testing of Ele	ry Guide Corric Powe	1.118, Revisi er and Protec	on 2, "Periodic tion Systems"	
	6.6	VEGP FSAR Chap	ter 13 and	d 14.2		
		E	ID OF PROCI	EDURE TEXT		

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	T	able 1. Action Verbs _	
Verb		Application	
Allow	To per prior pressu	nit a stated condition t to proceeding, e.g., "Al re to stabilize"	o be achieved LOW discharge
Check	To pert require	form a comparison with a sment "CHECK if SI can b	procedural e terminated"
Close	Is the valve b e.g.,	opposite of open for va N-142"; opposite of TRI 'CLOSE breaker ANB1002".	lves, e.g., "CLOSE P for breakers,
Complete	To acco require 'A,''' A throu	omplish spec'fied proced ments, e.g., "COMPLETE 'complete data report QA igh G of Sub-subsection	ural valve checkoff list ~1," "complete step 4.1.1"
Decrease	Do not probleu	use bacause of oral com us.	munication
Ensure	Take ne as spec	cessary actions to guar ified, e.g., "ENSURE al	antee conditions an 1 FWIVs CLOSED".
Establish	To make e.g., "	arrangements for a sta ESTABLISH communication	ted condition, with control room"
Increase	Do not problem	use because of oral cours.	nunication
Inspect	To meas charact limits; include	ure, observe, or evaluat eristic for comparison y method of inspection sh d, e.g., "visually INSP	te a feature or with specified hould be SCT for leaks"
Lower	To adju	st a value towards a sma	aller magnitude.
Monitor	To perio trends,	odically check the statu "MONITOR SG Blowdown fl	is to detect curren
Open	To chan, mechanic the uno access of	ge the physical position cal device, such as valu bstructed position that or flow, e.g., "OPEN val	of a 'e or door to permits ve IFP143"
Raise	To adjus magnitus	st a value upward, towar de.	ds a larger
Record	To docur i.e., "I	ment specified condition RECORD discharge pressur	or characteristic

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# Table 1. Action Verbs (Cont'd.)

Verb	Application					
Set	To physically adjust to a specified value an adjustable feature, i.e., "SET diesel speed to rpm"					
Start	To originate motion of an electric or mechanical device directly or by remote control, e.g., "START pump"					
Stop	To terminate operation, e.g., "STOP pump"					
Throttle	To operate a value in an intermediate position to obtain a certain flow rate, e.g., "THROTTLE value IFP140 to"					
Trip	To manually activate a semi-automatic feature, e.g., "TRIP breaker"					
Vent	To permit a gas or liquid confined under pressure to escape at a vent, e.g., "VENT pump"					
Verify	To observe an expected condition or characteristic, e.g., "VERIFY discharge pressure is stable"					

	The second secon		PAGE NO.						
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D		PROCEDURE WRITER/RYVIEWER QUALIFICATION CHECKLIST							
	1.	NAME	(PLEA	SE PRINT)	and de un man				
		I have a have read	minimum the fol	of 5 years of ) lowing and am	oower plant Kamiliar wi	t experience. I ith their content:			
		00050-C,	"Proced	ure Developmen	t"				
		00051-C,	"Proced	uze Review And	Approval"				
		00052-C,	"Tempor	ary Changes To	Procedures	ı"			
		10011-C,	"Operat Guideli	ions Procedure nes"	Preparatio	on And Review			
		00308-C,	"Indepe	ndent Verificat	ion Policy	×**			
•	I can locate and use applicable reference materials.								
			SIG	NATURE	affantan - ayan	DATE			
	2.	I have as employee. is qualif: individua experience fulfilled	sessed th To the led as a l has a r e. A man by relat	he performance best of my kno procedure writ minimum of 5 ye cimum of 4 year ted technical a	and experi wledge and er/reviewe ars of pow s of this nd/or acad	ence of this judgment, he/she r. This er plant experience may be emic training.			
		OPI	RATIONS	SUPERINTENDENT		DATE			

FIGURE 1







Approval					
	Geo		Prosciente No. 10011-C		
Date	N VOGTLE ELS	ICLEAR OPERATIONS		Revision No. 13	
		UNIT_1			
TITLE: IJRBINE I	BUILDING DRAIN SYSTEM ALIGNME	INT			
LINEUP COMPLETED	BY:				
Signature	Initial De	te Signatu ?	In	Itlal Dat	te
					-
COMMENTS:		RESOLUTION.			
					-
					_
REVIEWED BY:					
		Figure 2.			
ADVALS BALLYN	And the second	and the second sec			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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COMPONENT	DESCRIPTION	CONDITION REQUIRED	LINEUP (INITIALS)	VERIFICATION (INITIALS)
TOP OF PRZR RO	OM			
1-1201-X4-072	RCS PRZP SPRAY LINE VENT VALVE	CLOSED		
1-1201-X4-084	RCS PRZR SPRAY LINE VENT VALVE	CLOSED/CAFPED		
TOF OR PRER				
1-1261-04-102	RCS PRZR SFTY VLV PSV-8010A LOOP SEAL DRAIN	CLOSED		
1-1201-04-103	RCS PRZR SFTY VLV PSV-8010B LOGP SEAL DRAIN	CLOSED		
L-1201-U4-104	RCS PRZR SFTY VLV PSV-8010C LOOP SEAL DRAIN	CLOSED		
1-1201-04-105	RCS PRZR SFTY VALVES LOOP SEAL HEADER ISO	CLOSED		
1-1201-U4-106	RCS PRZR SAFETY VALVE RELIEF EDR	CLOSED/FLANGED	)	
				(Do not include this column if Independent Verification is not required.)
May be used w	when only one footnote is used through	out the procedure.	then one is	nonvivad

Figure 2 (Cont'd.)

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COMPANY CONTRACTOR		NA OFFICE A STREET STREET AND A STREET		an a	•• ***********************************	2 01 22	
		OPERATIONS (	GROUP PROCED	URE REVIEW (	Sheet CHECKLIST #1	1 of 1	
1.0	Admi	nis rative	Review Legui	rements			
	Chec	k that proce	edure is con	sistent with	h 10011-C, 10	012-C,	
	1.1	The exception applicable.	ion list is	ng items: present and	correct, if		
	1.2	Each page b	nas appropri	ate borders	and endings.		
	1.3	Proper numb	pering of pa	ges,			
	1.4	All support procedure s	ting materia Section.	ls are refer	enced in proj	per	
	1.5	Supporting throughout	material num	mber and r.m re body,	ie(s) are con	sistent	
	1.6	References procedure.	are current	, adequate a	nd applicable	e to the-	
	1.7 <u>Cautions</u> and <u>Notes</u> adhers to guidelines.						
	1.8	Component i guidelines.	dentificatio	on number de	rivations adh	nere to	
	1.9	If flow cha flow chart	rt is part o represents i	of the proce the procedur	dure, verify e.	that	
	1.10	Capitalizat guidelines.	ion and use	of action v	erbs adhere t	:0	
	1.11	Use of acro adheres to	nyms, abbrev guidelines.	fiations, an	d action verb	S	
	1.12	Subdivision	of steps ad	iheres to gu	idelines.		
	1.13	Adequate an addressed f	d applicable or the perfo	limits and prmance of ti	precautions ne procedure.	are	
	1.14	All procedu: ambiguous.	ral informat	ion is clear	r, concise, a	nd NOT	
1	1.15	Contents of page.	a proc dura	l step are y	placed on the	same	
	1.16	Independent	verificatio	n is provide	ed as require	d.	

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		OPFRATIONS	GROUP PROCEDURE	REVIEW CI	Sheet 1 of 2 HECKLIST #2		
Tech	nical	Review Req	uirements				
1.0	Sour	ces To Be U	sed For Review				
	1.1	FSAR					
	1.2	Technical	Specifications				
	1.3	Design Cri	teria				
	1.4	P&ID, C&ID	, Logic Drawing,	etc.			
	1.5	Westinghou	se Precautions,	Limitation	is, and Setpoints		
	1.6	Technical/	andor Manuals				
	1.7	Other Vend	or Drawings				
2.0	Procedure is technically correct as follows:						
	2.1	Precautions and are or	s and Limits are dered according a	clear, of to importa	sufficient deta nce.		
	2.2	Prerequisit for easy of	tes are not too g perator understar	general. a nding.	nd adequate deta:		
	2.3	All actions the require stated in t	s, manipulations ements and intent the procedure.	addressed of the P	in procedure mea urpose/Scope as		
	2.4	The procedu sequential that reflect	ire contains suff ly start up the s its good operation	ficient le system/com g practic	vel of detail to ponent in a manne es.		
	2.5	The procedu sequentiall that reflect	re contains suff y shut down the ts good operation	icient le system/com g practice	vel of detail to mponent in a manr es.		
	2.6	The procedu operating e in a safe, good operat	re contains suff volutions to mai efficient and ef ing practices.	ficient levent intain the fective structure of the second	vel of detail for system/component tatus that reflec		

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		OFERATIONS G	ROUF FROCEDURE REVIEW CHE	Cheet 2 of 2 CKLIST #2
	2.7	The valve a	nd electrical lineups con	tain:
		a. Suffic	ient valving to support the	he procedure.
		b. Correc proced	t valve positioning to sugure.	pport the
		c. Valve	names are precisely as give	ven on tags.
		d. Correc suppor	t control switch/breaker p t the procedure, as applied	positioning to cable.
		e. Remote as fou	ly operated VALVE/BREAKER nd on the control panels.	identification is
	2.8	All support useable. A facilitate procedure?	ing materials/attachments re additional attachments the efficient and effectiv	are legible and required to ve use of the
	2,9	Verification where applic supporting t	n and approval signatures cable in the main body and materials.	are addressed where required in
	2.10	For normal other proces	operations, procedure inte dures are not in conflict	vith with
		a. Purpose	a/Scope of other operation	s procedures.
		b. Prerequ operat?	isites/Initial Conditions	of other
		c. Valve s operati	and Electrical Lineup atta	chments of other