

April 5, 1999

Ms. Brenda Buchan
Division of Research and Regulatory Review
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee FL 32399-0872

Dear Ms. Buchan:

RE: Year 2000 Readiness

The information sent on to you on March 31, 1999 in regard to Gulf Power Company's response to Commissioner's Garcia's letter January 20, 1999, regarding Year 2000 readiness was not complete. Attached is the complete information. Also, Gulf has Year 2000 information on our website at WWW.GULFPOWER.COM that the general public can access.

Sincerely,

Susan D. Ritenour

Assistant Secretary and Assistant Treasurer

Susan D Ritenour

lw

cc: Beggs and Lane

Jeffrey A. Stone, Esquire

Florida Public Service Commission

Blanca S. Bayo 🚄

DOCUMENT NUMBER-DATE

04521 APR-88

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT Organization Information Version 3.1

					+					
1. Date?	03/31/99									
2. Organization?	Southern C	Company								
2a. Organizatio		eck the one		es best)	047	Oursel		ISO/		
	Investor		State/	B. O	G&T	Rural	IPP		Other	
	Owned	FedAgcy	Provnce	Muni	Coop	Coop	IL.L	Region	Ç.I.IOI	
	X	<u> </u>			<u> </u>	<u></u>		<u> </u>		
2b. Organizatio	on functions	? (Check al	that apply)	Regional						
	CntrlArea	Transmish	Generatn		Distrbin	Other				
	X	Х	X	Х	X	X				
2c. Organizatio	System	NonNucl. GenCpcty	Nuclear GenCpcty		of the following	ng covered b	y this repo	or		
3. NERC Region		SERC		4						
_			•							
4a. Person in cha	arge of orga	ınization Y2	K readines	s program	Name	J. M. (Mike				
					Title	Millennium (404) 506-5		(O CUUVI		
(Y2K ready me has been deter					Phone FAX#	(404) 506-5				
continued use			"		E-mail	immedur@		o.com		
COMMIDEG USE	niw ale yes	17 2000.7			- 117011	111111111111111111111111111111111111111				
4b. If you wish to reponse into to and enter the confirmation s	he NERC or name and f	omposite da E-mail acidre	itabase, chi	eck this bo	> Name E-mail	X D. H. (Dou- dhsmith @s		o.com		
										_
5a. Contact pers	on for nucle	_			Name					
		(Optional)			Title					
					Dept.					
					Phone # FAX #					
					E-mail					
5b. Contact pers	on for non-	nuclear nen	aration faci	litiae	Name	D. H. (Dou	a) Smith			
Sp. Contact pers	5011 101 11041-1	intrioat Noi	BIGROII IGO	iiu Qa	Title	Millennium		anage		
					Dept.	Millennium				
					Phone #	(404) 506-				
					FAX#	(404) 506-	5238			
					E-mail	dhamith@:	southerno	3.00M		·
6. Contact perso	on for energ	y managerr	ent system	s	Name	R. L. (Ray				 "
					Title			Engineerin		
					Dept.	Bulk Powe (205) 257-		111		
					Phone # FAX #	(205) 257-	_			
					E-mail	rivice @sou		orr		_
					- ******					
7. Contact perso	on for teleco	mmunicatio	ns systems	5	Name	D. H. (Dou				
					Title	Millennium		lanage		
					Dept	Millennium				
					Phone #	(404) 506-	5229			

	FAX#	(404) 506-5238
	E-mail	dhsmith@southernco.com
8. Contact person for substation control, syster	Name	D. H. (Doug) Smith
protection and distribution systems	Title	Millennium Project Manage
·	Dept.	Millennium Projec
	Phone #	(404) 506-5229
	FAX#	(404) 506-5238
	E-mail	dhsmith@southernco.com
9 Contact pareon for distributions systems	\$1	B. H. (Brown) Smith
9. Contact person for distributions systems*	Name	D. H. (Doug) Smith
	Title	Millennium Project Manage
	Dept.	Millennium Projec
	Phone #	(404) 506-5229
	FAX#	(404) 506-5238
	E-mail	dhsmith@southernco.com
10. Contact person for business information systems	Name	J. S. (Janet) Katzenberge
10. Odnicos posacis los buaissos intentidenti ayatesta	Title	
		Millennium Project Manage
	Dept.	Millennium Projec
	Phone #	(404) 506-5214
	FAX#	(404) 506-5238
	E-mail	jskatzen@southernco.com

11. Any comments? Enter below:

General Planning

A Year 2000 Readiness Disclosure

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT General Y2K Planning

Version 3.1

1. Date? <u>03/31/99</u>					
Do you have a written plan for Y2K readiness? been determined to be suitable for continued use into	(Y2K ready means the year 2000.)	a system or ap	oplication has		
	Yes In process Unwritten No	X			
2a. If No, does your organization intend to prepare or	ne .		Yes	No	
3a. Does your organization's Y2K Program repordirectly	to a VP or higher:		Yes X	No	
3b. Does your Board of Directors or governing body receivat least quarterly) reports on the status of your Y2K			Yes X	No	<u>;</u>
4. Please identify the present overall status of Y2K Prog	ram for your electric	c systems:			
Inventor, Assessment Remediation/Testing	Or/01/97 07/01/98 06/01/99		% Complete 100 100 85		
5. Does your Y2K analysis take into account a potentil breakdown in the supply chain and/or transportation of fuel, water, chemicals, material supplies, etc?	of	/es_X	No		
6a, What is the status of your Y2K operating contingence	y preparedness?				
	Haver starte			ave lan	Have tes & drilled
Power system Y2K studies' Y2K blackstart/restoration plan: Safe shutdown of power plant: Y2K special operating procedures Y2k personnel staffing and trainin	s & plan			X X	X
*Scenario analysis, capacity shor	tages/overages				
6b. Results of 6a above available to others	١	es X	No		
When do you expect your organization to be Y2K read (for mission critical facilities that are needed to meet operating requirements into the Year		ate <u>06/3</u>	<u>30/99</u>		
8. List the greatest obstacles your organization faces in Continuing to remain on schedule by receiving vendor management of the continuing to remain on schedule by receiving vendor management.	achleving Y2K read aterials as require	liness by Decer	mber 31, 1999?		
Please detail any Y2K Readiness concerns that you fe and for which you lack external support. Supplier changes in compliance statu:		r organization's	control		
Telecommunications supplier readiness - mainly in remo	te location				

General Planning

Vendor readiness - ability to supply upgrade:	s on our schedu	
10. Any comments? Enter below:		
Device/Component/system name		
Test description:		
Test results:		
Comments:		

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT

Nuclear Generation Facilities

Version 3.1

Note: This section of the report is optional when responding for the NERC Y2K Readiness Assessment.

Any responses received by NERC will be forwarded to NEI, which is facilitating assessment of nuclear plants.

1. Date <u>03/31/99</u>

2. Ar	e the following (mission-critical* facilities) Y2K ready?		% Con			
	Reactor control systems		N/A) I) I 100 I	A) R)	7	N/A) Not applicable
	Safe shutdown systems	ŀ	100	100 100		(WA) NOT applicable
	Fuel handling and storage system:	ŀ	100	100 87	┪	I) inventory
	Turbine/generator system:	}	100	100 50	┪	i) ilivolitory
	Balance of plant - water and steam system:	ŀ	100	100 91	┪	A) Assessment
	Environmental systems (including emission controls/mo	anitorina I	100	100 78	4	A) Addodamoni
	Electrical systems, power supplies, switchyard under pl		100	100 100	1	R) Remediation
	Data acquisition and communications systems		100	100 60	1	and testing
	Voice communications systems	ŀ	100	100 29	1	
	Unit and station protection systems/relay:	l	100	100 56		
					_	
	(% Complete - Report as amount of work completed in	•	-			
	of work to do in that phase. If no remediation and testi					
	inventoried and assessed, then show remediation and	raemiñ se unc	776 LUITIDIBIB.,	,		
			3098	4Q98	1099	
3. W	hat percentage of your mission-critical* systems in nuclea	ſ		89	95	
	neration facilities do you expect to be Y2K ready** by the end	l of:?	• •			
-		_	2Q99	3099	4Q99	
*М	ission-critical means that misoperation of the referenced device	ce or	99		100	
8	oftware could directly contribute toward the loss of a 50 MW or	,				
ls	uger generating resource, the loss of a transmission facility, or	r				
ir	terruption of system load.					
	Y2K ready means a system or application has been determine	9d to b€				
	suitable for continued use into the year 2000.					
4 H s	ave you completed an integrated test of the facilities listed in 2	ahous	N/A	Yes	7 NA	x
7.100	are you completed an imaginated test of the lacinities head in 2	above	144	109	اس. ا	
5. Hz	ave you completed contingency planning for components/syste	ems in 2 abov	e Yes	N	N X	
	or you do not not not not not not not not not no				لتنا	
6. Ho	ow will your organization measure Y2K readiness	Componen	t test	X		
	components/systems in 2 above? (Check all that apply.	Simulations		X		
	, , , , , , , , , , , , , , , , , , ,	Outside tes		X		
		Vendor ver	- 1	X		
		Other	,			
7. H	ow will communications facilities leased by your organization b	e determined	to be Y2K re	acty	_	
CI	neck this box if you are providing a single answer for your orga	anization unde	er telecommu	nication		Х
					-	
						
A If	your organization has found a unique / creative solution (a goo	nd idee we we	rrt In shara) I	n a Y2K		
	iclear generating facility problem, please first describe the pro-				dem.	
	our year arrangement and VAV and an according to the		الماداد المالية	- معدد بوالقالم		
	ave you encountered any Y2K nuclear generation facility prob nd would like to collaborate with others in resolving? If so, ple			CHACTEL CO. 1	990IVB	
н	no wood like to constructing with others in Lasoland 1, 11 20' big	was peacifie				
	·					
		_		*****		

NuclearGen

10. Any comments? Enter below:	
Safe shutdown systems were inventoried,	assessed and were found not to have a Y2K impact.
Device/Component/system name Test description:	
Test results:	
Comments:	

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT

Non-Nuclear Generation Facilities

Version 3.1

1. Date	03/31/99				
2. Are the	following (mission-critical* facilities) Y2K ready?	B1/A3	% Complete	5 \	
		N/A)	l) A)	R)	61(8) 8)
	Fuel supply and handling system:	<u> </u>	100 100	90	N/A) Not applicab
	Boller control and feed system:		100 100	75	
	Turbine/generator system:		100 100	75	l) Inventory
	Balance of plant water and steam system		100 100	90	
	Water treatment system:		100 100	85	A) Assessment
	Environmental systems (including ash, emissions, wast	٤	100 100	75	
	Electrical systems, power supplies, switchyard under pl	ant contr	100 100	83	R) Remediation
	Data acquisition and communications system		100 100	80	and testing
	Volce communications system:		100 100	90	
	Unit and station protection systems/relay		100 100	80	
	(% Complete - Report as amount of work completed in of work to do in that phase. If no remediation and test inventoried and assessed, then show remediation and t	ing is American in a	e sa that was		
	percentage of your mission-critical* systems in generation expect to be Y2K ready** by the end of:?			1Q99 75]
softwa larger	n-critical means that misoperation of the referenced device are could directly contribute toward the loss of a 50 MW or generating resource, the loss of a transmission facility, or uption of system load.			4Q99 100	
	ready means a system or application has been determine ble for continued use into the year 2000.	d to be			
	ou completed necessary integrated system (multi-compor of the facilities listed in 2 atrove?	nen N/A	Yes	No	X
5. Have y	rou completed contingency planning for components/syste	ems in 2 abov	Yes	No X]
	ill your organization measure Y2K readine: nponents/systems in 2 above? (Check all that apply	Component tes: Simulations Outside testing Vendor verificati Other		On-Line tes	ting
	rill communications facilities leased by your organization to this box if you are providing a single answer for your orga				X
	organization has found a unique / creative solution (a goor r generating facility problem, please first describe the pro-				
	you encountered any Y2K non-nuclear generation facility ould like to collaborate with others in resolving? If so, ple	problem(s) that ar		lifficult to res	solve

Non-Nuclear Gen

	,		 	
10. Any comments? Enter below:				
Device/Component/system name				
Test description:			 	
Test results:			 	
Comments:	<u></u> _			
		•		

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT Energy Management Systems, SCADA Version 3.1

1. Date	03/31/99							
2. Are the	e following (mission-critical* facilities) Y2K ready?	B.	VA.	% Co	mplete A)	R)		N/A) Not applicable
	Control control computer such sta	''' '	٧A	100	95	90	1	INA) Not approacio
	Control center computer systems Data acquisition subsystems	<u> </u>		100	90	90	1	i) Inventory
	UPS systems	\vdash		100	100	65	1	,,,
	Voice and data communications systems	—		100	100	66	1	A) Assessment
	Remote terminal units (RTUs)			100	100	100	i	7474444
	· · ·	<u> </u>	_	100	100	100	1	R) Remediation
	Metering equipment systems (tie lines)	⊢		100	90	50	i	and testing
	Backup control center	_		100	1 80	30	1	and tosting
	(% Complete - Report as amount of work completed in of work to do in that phase. If no remediation and tes inventoried and assessed, then show remediation and	ting is required in	n a ri	Area I	tiat wa:	urit 6		
		30	298		4Q98		1 Q99	
o What s	percentage of your mission-critical* EMS/SCADA facilities	_	0	1	25	I	50	
		° L	<u> </u>	J	_ سے	l	44	
uo you	expect to be Y2K Ready** by the end of:?	90	299		3 Q 99		4 Q 99	
#4.4tt_		 .	00	1	100	ŀ	100	
	on-critical means that misoperation of the referenced devi		VV.	J	100	l	100	
	are could directly contribute toward the loss of a 50 MW (
	r generating resource, the loss of a transmission facility, outling of system load.	or .						
*******	sprior or dy diorir roug.							
	ready means a system or application has been determinuble for continued use into the year 2000.	ed to be						
					.		.	
	you completed necessary integrated system (multi-comp of the facilities listed in 2 above?	onent)	N/A	<u> </u>] Yes	L	No	X
5. Have y	you completed contingency planning for components/sys	tems in 2 above1	7	Yes		No	X	
C Harry	vill your organization establish Y2K readiness?	Component to	000		X			
	riponents/systems in 2 above? (Check all that apply.)	Simulations	031		 Ŷ			
RUF COF	ilporients/systems in a abover (Check all that apply.)				Î	ł		
		Outside testin	_		 2	ł		
		Vendor verific	, HUIK	MI .	 ^- -			
		Other				<u> </u>		
7. How w	vill communications facilities leased by your organization	be determined to	o be	Y2K r	eady?			
Check	this box if you are providing a single answer for your org	panization under	tele	comm	unicatio	MS.		X
						·		
h (/					h= = 124	w		
	r organization has found a unique / creative solution (a go SCADA problem, please first describe the problem and th					2 N		
LITIO	Somer process, peese list results the process and the		- p	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
9. Have	you encountered any Y2K EMS/SCADA problem(s) that	ere carticulariv	diffic	cult to r	resolve			
	yould like to collaborate with others in resolving? If so, pl							
Due to th	ne distributed architecture of the Southern Co. EMS hard	ware/software as	s we	es d	istri butt	ad con	troi cen	ter facilities with
various s	support staff, a composite survey response is difficult bed	ause each locati	ion i	has dif	ierent s	chedu	ies and	degrees of
completi	on. A Southern Company Millennium project team has b	een established	to o	cordin	ate and	track	these (fispersed activities.
		2 20						

10. Any comments? Enter below:

EMS_SCADA

Device/Component/system name: Test description:	
Test results:	· · · · · · · · · · · · · · · · · · ·
Comments:	

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT

Telecommunications Systems

Version 3.1

1. Date	03/31/99					
2. Are the	following mission-critical* facilities Y2K ready?		% (N/A) II	Complete A)	R)	
	Telephone switches and key systems		10		95 [N/A) Not applicab
	Microwave systems:		10		100	,
	Mobile radio systems:		10		100	I) inventory
	SCADA radio?		10		100	,
	Data WAN/LANs including networking equipment		10	0 100	69	A) Assessment
	Modems?		10	0 100	100	
	Network equipment		10	0 100	90	R) Remediation
	Fiber systems?		10	0 100	55	and testing
	Leased lines?		10	0 50	100	
	Power line carrier systems'		X			
	Satellite systems?		10		100	
	Telecommunications management systems		10	0 100	95	
	(% Complete - Report as amount of work completed in of work to do in that phase. If no remediation and test inventoried and assessed, then show remediation and	ting is require	id in an an	a that wa		
3. What o	percentage of your mission-critical* telecommunications fa	acilitie	3Q98	4Q98	109	9
	expect to be Y2K ready** by the end of	l	25	50	75	
softwa langer	n-critical means that misoperation of the referenced devi are could directly contribute toward the loss of a 50 MW of generating resource, the loss of a transmission facility, of aption of system load.	or	2Q99 100	3Q99 100	4Q5 100	
	Ready means a system or application has been determing the for continued use into the year 2000.	ned to be				
	rou completed necessary integrated system (multi-compo of the facilities listed in 2 above?	nenc	N/A	Yes		lo <u>X</u>
5. Have y	ou completed contingency planning for components/syst	tems in 2 abo	y Y	es	No X]
	nill your organization establish Y2K readiness nponents/systems in 2 above? (Check all that apply	Componer Simulation Outside te: Vendor ve. Other	sting	X X X		
Check Meetings	rill communications facilities leased by your organization this box if you are providing a single answer for your organization have been held with the two largest telcos that provide is in progress on five primary service:	janization und	der telecor	nmunicatio	Southern	Comp
8. If your telecon	organization has found a unique / creative solution (a go nmunications facility problem, please first describe the pr	ood idea we v oblem and th	vant to sha en the sol	re) to a Ya ution to tha	2K at problem	

9. Have you encountered any Y2K belecommunications problem(s) that are particularly difficult to resolve and you would like to collaborate with others in resolving? If so, please describe:

Telecom

			- ** -		
10. Any comments? Enter below:					
to ray comments: Enter below,					
Device/Component/system name					
Test description:					
					_
					
Test results:					
		· . "."			

Comments:					
	***************************************				_
					_

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT Substation Controls, System Protection and Distribution

	Version 3.1
1. Date <u>03/31/99</u>	
2. Are the following mission-critical* facilities Y2K ready?	
	% Completion
Transmission and/or distribution facilities internal to substation	N/A) I) A) R)
Microprocessor relays:	100 100 100 N/A) Not applicab
Special protection schemes (gen. reject'n., line trip.,	
Load shedding controls and underfrequency relay	100 100 100 I) Inventor,
Circuit breaker and switching device control	100 100 100
LTC and regulator controls - inside the substatio	100 100 100 A) Assessment
Recloser controls - inside the substation	100 100 100
Digital fault recorders / digital transient recorders	100 100 100 R) Remediation
Terminal equipment for telecommunications facilities	
Substation service controls (incl. battery chargers	100 100 100
Disturbance analyzers:	100 100 100
Distribution facilities outside the substation	400 1 400 1 400
Transfer/recloser controls - outside the substatio	100 100 100
Sectionalizer controls - outside the substation	
Capacitor controls - outside the substation	
Voltage regulators - outside the substation	
Data gathering equipment - outside the substation	100 100 100
/0/ Complete - Count on amount of work on anti-to-d	to much whoma divided his takel amount
(% Complete - Report as amount of work completed of work to do in that phase. If no remediation and to	
inventoried and assessed, then show remediation are	- ····· - · - · - · · · · · · · · · · ·
inventorioù anti assessoù, uran snow remediadon ar	u tesung as 100% complete.)
3. What percentage of your mission-critical* substation, system	protectic 3Q98 4Q98 1Q99
and distribution controls do you expect to be Y2K ready** by the	
*Mission-critical means that misoperation of the referenced de	vice or 2Q99 3Q99 4Q99
software could directly contribute lowerd the loss of a 50 MV	
larger generating resource, the loss of a transmission facility	
interruption of system load.	
** Y2K Ready means a system or application has been determ	nined to be
suitable for continued use into the year 2000.	
4. Have you completed an integrated test of the facilities listed in	2 abov N/A Yes No.X
Have you completed contingency planning for components/sy	stems in 2 abov Yes No X
6. How will your organization establish Y2K readiness	Component tes:
for components/systems in 2 above? (Check all that apply	Simulations X
	Outside testing X
	Vendor verification X
	Other X Integration Testing
7 Lieuwwill communications facilities leased by your amonto the	n he determined to be VSK rear
How will communications facilities leased by your organization. Check this box if you are providing a single answer for your organization.	
Check and box if you are providing a single answer for your o	Iganization under talecommonisatio
<u> </u>	**
	
8. If your organization has found a unique / creative solution(a g	ood idea we want to share) to a Y2K
substation controls, system protection or distribution problem	
and then the solution to that problem.	
In order to create an integrated test within the distribution functi	on, we are building a test facilty that will consis

SubstnCtrls,Protect,Dist

	ent that exists in inventory (relays, reclosures, meters, etc.). It wil
used to integrate the date testing of the var	ious devices and will have long term collateral benefits to South
	ion controls, system protection or distribution problem(s) that are particularly collaborate with other in resolving. If so, please describe:
10. Any comments? Enter below:	
Device/Component/system name Test description:	
rest description.	
Test results:	
Comments:	

A Year 2000 Readiness Disclosure NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT IT Business Information Systems

Version 3.1

This Section of the Assessment report will be analyzed by the Edison Electric Institute in support of the industry report to the Department of Energy.

Organization Information

1. Date?	03/31/99						
2. Are the	following IT Business Systems Y2K Rready*7 Customer Information Systems	?		N/A)	% Complete i) A) 100 100	Ft) 99 N/A	\) Not applicable
	Call Center Systems Financial and Cost Management Systems Plant Maintenance Systems Distributed Work Management		eral Ledger, cost Reporting)		100 100 100 100 100 100	100 100 100	() Inventory
	Geographical information Systems/Distributi Accounts payable/purchasing/inventory Electronic Data Interchange Systems	ion Assets			100 00 100 100 100 100	100 100 100	A) Assessment
	Transmission Work Management Fixed Asset Systems Security Systems (e.g., System and Facility Facility Operating Systems (e.g., HVAC, Ligi		oks)		100 100 100 100 100 100 100 100	100 100 95 98	R) Remediation and Testing
	(If you don't have to do remediation and test	ting, report i	itam 100% com ple te	o.)			
	ercentage of the systems listed in question 2 expect to be Y2K Ready** by the and of:?			3Q98 50 2Q99	4Q98 95 3Q99 100	1Q99 100 4Q99 100]
CPUs,	ercentage of the supporting infrastructure (e.g Systems Software LAN/WAN) for the systems a expect to be Y2K Ready* by the end of:?			3Q98 60 2Q99 100	4Q98 80 3Q99 100	1099 90 4099 100]
	ou completed necessary integrated system (in of the facilities listed in 2 above?	nulti-compor	nent)	N/A.	Yes	No <u>X</u>]
	tl your organization determine Y2K Readiness s listed in question 2? (Check all that apply.)	o* for the	Component test Simulation Outside testing Vendor verification Other	n	X X		-
7. How wi	Il the Y2K Readiness* of business systems o	utsourced t	y your organization	be determi	ned?	# = .	-
							-
	organization has found a unique / creative soli problem, please first describe the problem ar				/2K business	<u>-</u>	-
							-

Business Systems

Have you encountered any Y2K business and would like to collaborate with others in		

*Y2K Ready means a system or application sultable for continued use into the year 20	n has been determined to be 900.	
10. Any comments? Enter below:		
Device/Component/system name: Test description:		
Test results:		
		-··-
Comments:		
	· · · · · · · · · · · · · · · · · · ·	<u></u>

NERC Y2K ELECTRIC SYSTEM READINESS ASSESS Database Stuff - for NERC use only

Version 3.1

Organizati	on Informa	ation				
1. Date?				03/31/99	03/31/99	03/31/99
2a. Org. t	voe	IOU		X	1	1
	71- -	FedAgcy		Ô	•	,
		State		ő		
		Muni		Ö		
		G&T		ő		
		RuralCoop		0		
		IPP		0		
	ISO	/Region		0		
	100	Other		0		
2b. Org. fur	actione	ContrArea		X	1	1
zo. Org. Idi	ICUOIIS	Transmsn		x	ì	i
		Generatn		x	1	i
	Pagional	SecCoord		x	1	1
	Regional	Distrbtn		â	1	1
		Other		x	1	1
2c. Size	Sustam			^	-	37259
20. Size		PeakLoad			37259	
	NonNucl.				34795	34795
0 NEDO D		Capacity		CEBO	5670	5670
3. NERC R	-			SERC	SERC	SERC
General Y2		_				1
2.have a w	ritten plan?			X	1	1
		In process		0		
		Unwritten		0		
0- (0)- 1-		No		0		
2a. If No, in	itena to?		Yes	0		
			No	0		
			When	01/00/00	_	_
3a. Report	to a VP7		Yes	X	1	1
			No	0	_	
3b. Qtrly rp	rt to bd?		Yes	X	1	1
		•	No	0		
4. Overall s	tatus	Inventory	Est Date	07/01/97	07/01/97	07/01/97
		Inventory	% Cmplt	07/04/00	100	100
		Assess	Est Date	07/01/98	07/01/98	07/01/98
		Assess	% Cmpit	00/04/00	100	100
		Rmd/Tst	Est Date	06/01/99	06/01/99	06/01/99
5 Datastal	المستعدد المستعددات	Rmd/Tst	% Cmplt	v	85	85
5. Potential	Dreakdow	rı .	Yes	X	1	1
Co Constan		D	No No otout	0		
6a. Conting	j. prep r	Pwr syst	No start	0	4	
			Started	"DEEL	1	1
			Have plan	#REF!	#REF!	#REF!

		Tested	0		
	Blackstart		0		
		Started	0		
		Have plan	0		
		Tested	X	1	1
	Safe shut		0		
		Started	0		
		Have plan	0		
	Onnaial au	Tested	X	1	1
	Special op		0		
		Started	0	1	1
		Have plan Tested	X 0	•	•
	Staff&train		0		
	Stallettall	Started	ŏ		
		Have plan	x	1	1
		Tested	ô	•	•
6h Besul	ts to others?	Yes	X	1	1
JD. 11000.		No	Ô	·	•
7. When re	aadv?	Date	06/30/99	06/30/99	06/30/99
	eneration Facilities				
	Reactor controls	N/A	0		
		1	100	100	100
		A	100	100	100
		R	91	91	91
	Safe shutdown system	r N/A	0		
	•	I	100	100	100
		Α	100	100	100
		R	100	100	100
	Fuel handling and sto	n N/A	0		
		1	100	100	100
		Α	100	100	100
		R	87	87	87
	Turbine/generator sys	s N/A	0		
		1	100	100	100
		Α	100	100	100
		R	50	50	50
	Balance of plant - wa	tı N/A	0		
		I .	100	100	100
		A	100	100	100
	Control and a salar	R	91	91	91
	Environmental syster	n N/A	0	400	400
		1	100	100	100 100
		A	100	100 78	78
	Electrical avatema n	R n. N/A	78	70	10
	Electrical systems, po	O' IWA.	0 100	100	100
		A	100	100	100
		R	100	100	100
	Data acquisition and		0	.00	, 55
	and and and and		100	100	100
		•			

		Α	100	100	100
		R	60	60	60
Voice cor	mmunicatio	ons N/A	0		
		1	100	100	100
		Α	100	100	100
		R	29	29	29
Unit and	station pro	tec N/A	0		
		1	100	100	100
		Α	100	100	100
		R	56	56	56
3. % Ready by		3Q98		0	0
		4098		69	69
		1099		95	95
		2099		99	99
		3099		99	99
		4Q99		100	100
4. Integrated test?		N/A	0		
		Yes	0	_	•
		No	X	1	1
5. Contingency plan	ning?	Yes	0		
	_	No	X	1	1
6. How Measure	Compor		X	1	1
	Simulati	= =	X	1	1
	Outside	_	Х	1	1
		verification	X	1	1
	Other		0		
7. Single answer for		Phhad	Х	1	1
Non-nuclear Gener			^		
2. Are the Fuel sup	piy and na	nai N/A	0	400	400
		l a	100	100	100
		A	100	100	100
5 -9		R	90	90	90
Boller co	entrol and for	eec N/A	0	400	400
		l .	100	100	100
		A	100	100	100
T		R	75 0	75	75
i urbine/	generator s	sys IV/A	0	100	100
		1	100	100	100
		A R	100	75	75
Polongo	of plant w		75 0	75	75
Dalance	of plant wa	aternya.	100	100	100
		Ä	100	100	100
		Ř	90	90	90
\Alatar tr	eatment sy		0	30	•
YYACH U	oaunon ay	1	100	100	100
		Ä	100	100	100
		Ř	85	85	85
Environ	mental syst		õ		
2,,,,,		1	100	100	100
		A	100	100	100
		·		-	

		R	75	75	75
Electrical	systems, p	oo' N/A	0		
		!	100	100	100
		Α	100	100	100
		R	83	83	83
Data acq	uisition and	d c N/A	0		
		I	100	100	100
		Α	100	100	100
		R	80	80	80
Voice cor	mmunicatio	one N/A	0		
		1	100	100	100
		Α	100	100	100
		R	90	90	90
Unit and	station pro	tecN/A	0		
		1	100	100	100
		Α	100	100	100
		R	80	80	80
3. What percentage	of your mis			0	0
		4Q98		50	50
		1 Q 99		75	75
		2 Q 99		100	100
		3 Q 99		100	100
		4Q99		100	100
4. Integrated test?		N/A	0		
		Yes	0		
		No	Х	1	1
5. Contingency plant	ning?	Yes	0		
		No	X	1	1
6. How Measure	Compor		Х	1	1
	Simulati		Х	1	1
	Outside	-	Х	1	1
		verification	Х	1	1
	Other		Х	1	1
7. Check this box if y			Х	1	1
Energy Manageme					
2. Are the following				y?	
Control o	enter com	put N/A	0		
		l	100	100	100
		Α	95	95	95
		R	90	90	90
Data aco	juisition su	bsy N/A	0		
		1	100	100	100
		A	90	90	90
	.	R	90	90	90
UPS sys	tems	N/A.	0	100	400
		l s	100	100	100
		A	100 65	100	100
Voice or	d data ac-	R ami N/A	65	65	65
voice an	d data con	I I I I I I I I I I I I I I I I I I I	400	100	100
		Λ.	100	100	100
		Α	100	100	100

Remote terminal units N/A 0 100 100 100 A 100 100 A 100 A 100 100 A 100 A 100 100 100 A 100 100 A 100 100 A 100 100 A 100 100 100 A 100 100 A 100 100 A 100 100 A 100 100 100 A 100 100 100 A 100 100 A 100 100 100 A 100 100 100 A 100 100 A 100 100 100 A 100 100 A 100 100 100 A 100 A 100 A 100 A 100 A 100	В	66	66	66
1	R Remote terminal units N/A	66 0	90	90
A			100	100
R	Δ			
Metering equipment si N/A				
1	• •		100	100
A 100 100 100 100 100 R 100 R 100 100 R 100 R 100 100	l I		100	100
R	A			
Backup control center N/A				
1				
3. What percentage of your missis 3Q98 0 0 0 4Q98 25 25 25 1Q99 50 50 50 2Q99 100 100 100 4Q99 100 100 100 4Q99 100 100 100 4Q99 100 100 100 100 100 100 100 100 100 1	·	100	100	100
3. What percentage of your missix 3Q98	A	90	90	90
4Q98	R	50	50	
1Q99 50 50 50 2Q99 100 100 100 3Q99 100 100 100 4Q99	3. What percentage of your missic 3Q98		0	
2Q99				
3Q99 100 100 100 4Q99 100 100 100 Yes 0 No X 1 1 1 5. Have you completed contingen Yes 0 No X 1 1 1 6. How will your organ Component test X 1 1 1 Simulations X 1 1 1 Qutside testing X 1 1 1 Qutside testing X 1 1 1 Vendor verification X 1 1 1 Qutside testing X 1 1 1 Telecommunications Systems 2. Are the following ml Telephone N/A 0				
4 Have you completed necessary N/A Yes 0 No X 1 1 5. Have you completed contingen Yes 0 No X 1 1 6. How will your organ Component test X 1 Simulations X 1 1 Outside testing X 1 1 Vendor verification X 1 1 1 Telecommunications Systems 2. Are the following ml Telephone N/A 1 1 1 0 1 0 1 1 1 0 1 1 1 1 0 1 1 1 1				
4. Have you completed necessary N/A Yes 0 No No X 1 1 5. Have you completed contingen Yes 0 No X 1 1 6. How will your organ Component test X 1 Simulations X 1 Outside testing X 1 1 Vendor verification X 1 1 Telecommunications Systems 2. Are the following ml Telephone N/A 100 100 100 100 100 R 95 95 95 Microwave N/A 0 1 100 100 100 100 100 R 1 100 100 100 100 R 1 100 100 100 100 R 1 100 100 100 100 100 R 1 100 100 R 1 100 100 R 1				
Yes 0 No X 1 1 1 1 1 1 1 1 1		_	100	100
No	· · · · · · · · · · · · · · · · · · ·			
5. Have you completed contingen Yes No No X 1 6. How will your organ Component test Simulations Cutside testing X 1 Vendor verification Other Other 7. Check this box if you are providing a single X 1 Telecommunications Systems 2. Are the following ml Telephone N/A Nicrowave N/A Nicrowave N/A Nicrowave N/A No No No No No No No No No N				
No			1	1
6. How will your organ Component test X 1 1 1 Simulations X 1 1 1 Outside testing X 1 1 1 Vendor verification X 1 1 1 Vendor verification X 1 1 1 Telecommunications Systems 2. Are the following ml Telephone N/A 0	- ' '			4
Simulations X				
Outside testing X 1 1 Vendor verification X 1 1 Other 0 7. Check this box if you are providing a single X 1 1 Telecommunications Systems 2. Are the following ml Telephone N/A 0 100 100 100 100 100 100 R 95 95 95 Microwave N/A 0 100 100 100 100 100 R 100 100 100 100 1				
Vendor verification				
Other 0 7. Check this box if you are providing a single X 1 1 Telecommunications Systems 2. Are the following ml Telephone N/A 0 100 100 100 100 100 A 100 100 100 A 100 100	-			
7. Check this box if you are providing a single X 1 1 **Telecommunications Systems** 2. Are the following ml Telephone N/A 0 100 100 100 100 100 100			•	•
Telecommunications Systems 2. Are the following ml Telephone N/A 100 100 100 100 A 100 100 100 R 95 95 95 95 Microwave N/A 0 100 100 100 A 100 100 100 100 A 100 100 100 100 R 100 100 100 100 Mobile radi N/A 0 1 100 100 100 A 100 100 100 100 A 100 100 100 100 SCADA rac N/A 0 1 100 100 100 A 100 100 100 100 A 100 100 100 100 A 100 100 100 100 Data WAN N/A 0 1 100 100 100 A 100 100 100 100 A 100 100 100 100 Data WAN N/A 0 1 100 100 100			1	•
2. Are the following ml Telephone N/A 1		. Д	•	•
100 100 100 100 A 100 A 100 B 95 95 95 95 95 95 95 95 95 95 95 95 95	•	O		
A 100 100 100 R 95 95 95 Microwave N/A 0 I 100 100 100 100 A 100 100 100 R 100 100 100 Mobile radi N/A 0 I 100 100 100 100 A 100 100 100 100 R 100 100 100 100 SCADA rac N/A 0 I 100 100 100 100 A 100 100 100 A 100 100 100 A 100 100 100 Data WAN. N/A 0 I 100 100 100			100	100
Microwave N/A 0 1	A			
1		95	95	95
A 100 100 100 R 100 100 100 Mobile radi N/A 0 I 100 100 100 100 A 100 100 100 R 100 100 100 SCADA rai N/A 0 I 100 100 100 100 A 100 100 100 100 R 100 100 100 100 Data WAN N/A 0 I 100 100 100 100 A 100 100 100	Microwave N/A	0		
R 100 100 100 Mobile radi N/A 0 I 100 100 100 100 A 100 100 100 100 R 100 100 100 SCADA racN/A 0 I 100 100 100 100 A 100 100 100 R 100 100 100 Data WAN N/A 0 I 100 100 100 100 A 100 100 100	f	100		
Mobile radi N/A 0 I 100 100 100 A 100 100 100 R 100 100 100 SCADA rac N/A 0 I 100 100 100 A 100 100 100 R 100 100 100 Data WAN N/A 0 I 100 100 100 A 100 100 100 A 100 100 100		100		
I 100 100 100 A 100 100 100 R 100 100 100 SCADA ra(N/A 0 I 100 100 100 A 100 100 100 R 100 100 100 Data WAN, N/A 0 I 100 100 100 A 100 100 100 A 100 100 100			100	100
A 100 100 100 R 100 100 100 SCADA racN/A 0 I 100 100 100 100 A 100 100 100 R 100 100 100 Data WAN.N/A 0 I 100 100 100 A 100 100 100	Mobile radi N/A			
R 100 100 100 SCADA racN/A 0				
SCADA racN/A 0 I 100 100 100 A 100 100 100 R 100 100 100 Data WAN.N/A 0 I 100 100 100 A 100 100 100				
I 100 100 100 A 100 100 100 R 100 100 100 Data WAN.N/A 0 I 100 100 100 A 100 100 100			100	100
A 100 100 100 R 100 100 100 Data WAN. N/A 0 I 100 100 100 A 100 100 100	_		100	100
R 100 100 100 Data WAN.N/A 0 I 100 100 100 A 100 100 100				
Data WAN.N/A 0 I 100 100 100 A 100 100 100				
I 100 100 100 A 100 100 100			, 00	, 00
A 100 100 100	_		100	100
	•			

Modems?	N/A	0		
	1	100	100	100
	Α	100	100	100
	R	100	100	100
Network ec	N/A	Ö		
	I	100	100	100
	Α	100	100	100
	R	90	90	90
Fiber syste	N/A	0		
	!	100	100	100
	Α	100	100	100
	R	55	55	55
Leased line	N/A	0		
	I	100	100	100
	Α	50	50	50
	R	100	100	100
Power line	N/A	X	1	1
	l	0		
	Α	0		
	R	0		
Satellite sy	N/A	0		
·	I	100	100	100
	Α	100	100	100
	R	100	100	100
Telecomm	N/A	0		
	1	100	100	100
	A	100	100	100
	R	95	95	95
3. What percentage of your missic	30,98		25	25
	4\⊇98		50	50
	1(299		75	75
	2(299		100	100
	3(299		100	100
	40.99		100	100
4. Have you completed necessary	N/A	0		
	Yes	0		
	No	X	1	1
5. Have you completed contingen	Yes	0		
	No	X	1	1
6. How will your organization esta	Componen	X	1	1
	Simulation:	X	1	1
	Outside tes	X	1	1
	Vendor ver	X	1	1
	Other	0		
Check this box if you are provided		Х	1	1
Substation Controls, System Pi			tion	
2. Are the following mi Microproce	N/A	0		
	l .	100	100	100
	A	100	100	100
	R	100	100	100
Special pro	N/A	0		

1	100	100	100
Α	100	100	100
R	100	100	100
Load shed N/A	0		
t	100	100	100
Α	100	100	100
R	100	100	100
Circuit bre: N/A	0		
1	100	100	100
Α	100	100	100
R	100	100	100
LTC and r∈ N/A	0		
I	100	100	100
A	100	100	100
R	100	100	100
Recloser c N/A	0		
I	100	100	100
Α	100	100	100
R	100	100	100
Digital faul N/A	0		
I	100	100	100
Ä	100	100	100
R	100	100	100
Terminal e N/A	0		
1	100	100	100
Α	100	100	100
R	100	100	100
Substation N/A	0		
I	100	100	100
Ä	100	100	100
R	100	100	100
Disturbanc N/A	0	100	
	100	100	100
A	100	100	100
Ŕ	100	100	100
Distribution facilities outside		100	0
Transfer/re N/A	0		•
1	100	100	100
A	100	100	100
Ŕ	100	100	100
Sectionaliz N/A	0	100	
Ooddonaliz 10A	100	100	100
Ä	100	100	100
Â	100	100	100
Capacitor (N/A	0	130	100
Capacitor (10/A	100	100	100
Ä	100	100	100
Ŕ	100	100	100
Voltage reز N/A	0		
- Sundo Ioi Iav	100	100	100
A	100	100	100
	100	100	.00

R	•	00	100	100
Data gathe N		0	100	100
Data gathe N			400	400
 				100
A				100
R What parantage of your mind		00		100
What percentage of your missic	3Q98		90	90
	4Q98			100
	1099			100
	2Q99			100
	3Q99			100
	4Ω99		100	100
4. Have you completed an integra N		0		
		0		
N		X	1	1
5. Have you completed contingen Ye		0		
N		X	1	1
6. How will your organization esta C	omponen	X	1	1
Şi	imulation:	X	1	1
0	utside tes	X	1	1
V	endor vei	Х	1	1
0	ther	X	1	1
7. Check this box if you are providing	g a single	X	1	1
IT Business Information Systems				
2. Are the (Customer Information Na	/A	0		
ı	1	00	100	100
A				100
R		99	99	99
		0		
			100	100
A				100
R				100
Financial and Cost Me N		0	.00	
			100	100
, A				100
R				100
Plant Maintenance Sy N		0	.00	
I marking by the			100	100
A				100
Ŕ				100
Distributed Work Mani N.		0	100	
			100	100
A				100
R				100
Geographical Informat N.		0	100	.00
			100	100
, A				100
Â			100	100
Accounts payable/pur N		0	100	.00
			100	100
Ä				100
R			100	100
n	•	00	100	100

Electronic Data Interci N/A		0		
	I	100	100	100
,	Α	100	100	100
I	R	100	100	100
Transmission Work Mil	N/A	0		
	l	100	100	100
	A	100	100	100
	R	100	100	100
Fixed Asset Systems i	N/A	0		
	ŀ	100	100	100
	A	100	100	100
	R	100	100	100
Security Systems (e.g N/A		0		
i	1	100	100	100
	A	100	100	100
1	R	95	95	95
Facility Operating Sys I	N/A	0		
I	l	100	100	100
	A	100	100	100
I	R	98	98	98
3. What percentage of the system	3(298		50	50
	40,98		95	95
	1(299		100	100
	2(299		100	100
	3Q99		100	100
	4(299		100	100
4. What percentage of the suppor	3Q98		60	60
	40298		80	80
	1(299		90	90
	2099		100	100
	3(299		100	100
	4(299		100	100
5. Have you completed necessar, N/A		0		
	Yes	0		
	No	Х	1	1
6. How will your organization dete		X	1	1
	Simulation	X	1	1
	Outside tes	0		
	Vendor ver	X	1	1
	Other	0		