

## Inspection Request Summary

Ginna SSDI IR 2003-002

No.	Initials	Short Description	Date Requested	Date Closed
1-	BN	additional prep material	03/20	03/24
2-	BN	Q's on SI after walkdown	03/20	4/1
3-	FJ	Copies of QA assessments related to	03/27	03/31
		SI + EDG's over last 3 yrs.	<i>W</i>	<i>W</i>
<del>4-</del>	<del>BN</del>	<del>requests after prep wrk</del>	<del>3/27</del>	<del>4/2</del>
		SI DRAWINGS/DACKETS	3/27	4/1
6-	HA	SI CASES LEVELS, VOL, SETPOINTS	3/27	4/1
7-	HA	SI Pump RUNOUT, MIN FLOW, <sup>NASH, VOIDING</sup> VORTEX	3/27	4/2
8-	HA	SI ARS/ENRS/TMS/PCRS	3/27	4/1
9-	HA	SI DEGRADED Pump	3/27	4/3/03
10-	HA	SI FLOW BALANCING	3/27	4/3/03
11-	HA	EDG LOADING/E-O CONSUMPTION/TANK <sup>LEVELS</sup> VOL	3/27	4/3/03
12-	HA	EDG STARTING SYSTEM / COOLING SYSTEM	3/27	4/1
13-	HA	EDG VENTILATION/AIR INTAKE	3/27	4/1
14-	HA	EDG ARS/ENRS/TMS/PCRS	3/27	4/1
15-	SMP	IST / Mint Info	3-27	4-2
16-	FJA	Admin Document PI+R PROCESS	3-27	3/31
17-	MG	Last RSSP-2.1 + 2.1A tests	3/27	4/1/03
18-	MG	Log 3313- <del>13</del> 1353 ( <sup>edge start</sup> logic + schematics)	3/27	3/31
19-	MG	ACR # 2001-0087	3/27	3/31
20-	MG	ACR # 2000-1278	3/27	3/31
21-	LC	EGIA - 01001	3/27	3/31
22-	LC	EGIA - 01002	3/27	3/31
23-	LC	doc req	3/27	4/15
24-	BN	CSFSTO	3/3	3/31
25-	HA	TSpez & Q15 ARE VOLUME/PRESS	3/31/03	

PI+R closed  
3/31/03

# Inspection Request Summary

Ginna SSDI IR 2003-002

NO.	Initials	Short Description	Date Requested	Date Closed
26-	MG	IRSSIP requests - Greg Jones	4/1/03	4/1/03
27-	BN	Questions from Tracy <sup>SP</sup> <sup>HA</sup> <sup>LO</sup> <sub>MG</sub> <sub>FA</sub> <sub>SP</sub>	4/1	4/15
28-	SP	IST Trend Data	4-1	4-2
29-	SP	Maint/IST schedule	4-1	4/3
30-	SP	A/Rs	4-1	4/3
31-	FA	Discuss A/R 99-0488 with JOE PLETNER	4-1	4/3
32-	FA	Request discussion w/ Ralph Davis QA	4-1	4/3
33-	SP	SI Accum Check Valve Test Results	4-1	4/3
34-	HA	CALCULATION OF WATER EL. IN CONT TO PROVIDE NPSH	4/1	4/3
35-	FA	Service back DP's to EDG's w/ 2 SW Pump	4/1	4/3
36-	BN	TM on SI fuel pump	4/2	4/3
37-	SP	Breaker Probs - Discussion/Data	4-2-03	4-3
38-	LC	<sup>CHAP 15 ANALYSIS</sup> LB LOCAL 1.5 SEC SI UNLV & back to full flow	4/2	4/15
39-	FA	Control of analytical inputs which vendors use	4/2	4/3
40-	HA	D/G AIR START - <sup>DEER PRESS TO COMB START</sup> <sup>BEFORE PRESS TO REF TEST / ANY TRENDS</sup>	4/2	4/3
41-	LC	Control logic diag for A & B <sup>IN OPERATION</sup>	4/2	4/3
42-	LC	Pump Curves to support KW values used in D/G LAMMA	4/2	4/3
43-	SP	WDS → Done via Computer	4/2	4/2
44-	HA	SW FLOW TO EDG'S w/ DEER pump # 1, 2, 3 <sup>IN OPERATION</sup>	4/2	4/3
45-	BN	SI valves 1B15A/B & 1B16 A/B	4/3	4/14
46-	FA	Bus Tie Break BT17-18	4/3	4/3
47-	BN	close out doc. for TM 2001-0012	4/3	4/14
48-	MG	s/c tests for SI + EDG's / Tel Miller	4/3	4/15
49-	SP	Valve Maint History	4-3	4-15
50-	HA	Calc questions (Monday's @)	4/8	4/14

need spec

4/15/03

## Inspection Request Summary

Ginna SSDI IR 2003-002

NO.	Initials	Short Description	Date Requested	Date Closed
51-	HA	Tuesday's Q's - <del>part</del> #1	04/09	✓ OK 4/16
52-	HA	Tuesday's Q's - #2-5	04/09	✓ OK 4/16
53-	MG	CS pump HVAc mod	4/10	4/14 ✓
54-	MG	seismic <del>and</del> analysis for HVAc	4/10	4/15 ✓
55-	MG	AR request	4/10	4/15 ✓
56-	MG	Generic HVAc analysis	4/10	4/15 ✓
57-	MG	SI orifice plate AR	4/10	✓ ✓
58-	MG	AR request	4/10	4/15 ✓
59-	MG	ES-1.3 question	4/10	4/17 ✓
60-	MG	procedure request.	4/10	4/15 ✓
61-	SP	EDG Reliability/Unavail data	4-10	4-14
62-	SP	EDG cracked ASM cylinder	4-10	4-14
63-	SP	Copies of M-15.1M	4-10	4-14
64-	SP	AR 2001-0087 follow-up	4-10	4-15 ✓
65-	HA	Wednesday's Q's	4/10	✓ OK 4/16
66-	BN	OE review	4/10	4/14
67-	SP	SE PP thrust bearing temps	4-10	4-14
68-	HA	Q's	4/10	✓
69-	HA	Q's	4/14	✓ OK 4/16
70-	SP	App R EDG ('A') risk	4-14	✓ ✓
71-	HA	HOT LEG RELIANCE	4-14	4-14
72-	MG	low request	4/14	4/15 ✓
73-	SP	SI pump thrust bearing cooling	4-14	4-15 ✓
74-	HA	DB VENTILATION CALCS	4-14	4/15
75-	SP	1815A/B + 1816A/B - IST	4-15	4-15

# Inspection Request Summary

Ginna SSDI IR 002

NO.	Initials	Short description	Date Requested	Date Closed
76-	BN	wrt SF valves	4/15	4/16
77-	HA	<del>REQ #25 (ACCUM-VOL -25° ON PET)</del>	<del>4/15</del>	<del>Cancelled</del>
78-	SP	EDG PM recommendations	4/15	✓
79-	HA	REQ #25 RESPONSE REVIEWED. CONFIRM PET-25°F	4/15	✓
80-	LC	• OPEL EVAL WHEN FAULT WATER (EDG) EVAPORATED • DESIGN RESULTS FOR FIRE BARRIER IN FAULT B	4/15	✓
81-	HA	<del>Copy of AR 2003-0822</del>	<del>4/15</del>	<del>Cancelled # 4/16/03</del>
82-	HA	<del>Case SA-EE-2000-025, Refo / SACR 2002-005 No. 0</del>	<del>4/16</del>	<del>Cancelled</del>
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99-				
100-				

Request # 1

Requester: Norris

Date: 03/20/03

Request: Below additional material required:

a. org chart for entire station/organization

b. phone list for entire station

c. normal system operating procedures for  
SI, EDG's, & RHR

d. cross-reference of TS surveillance  
requirements to surveillance test  
procedures for SI (including accumulators)  
EDG's, & RHR

Tom Harding  
walberg

Licensee Acknowledgment: Flaherty

Date: 3/20

## Inspection Request

Ginna SSDI IR 2003-002

Request # 2 Requester: Norris Date: 03/20/03

Request: questions given to Lou Berthiaume  
after this morning's walkdown of the  
safety injection system:

a. required position of valves 897 & 898

b. copy of PCR w/ 50.59 for the  
modification to add the SI accumulator  
fill pump

c. copies of all ACTION reports for last  
2 years related to boric acid at  
Ginna

Licensee Acknowledgment: L o ~

Date: 3/20



# Inspection Request

Ginna SSOI IR 2003-002

Request# 4

Requester: Norris

Date: 03/27

Request: please have below available for team when we arrive Monday morning:

1.  An additional set of the P&ID's for EDG, SI, RHR (LP7), and the offsite power (grid) distribution

2. list of all operating experience reviews for EDG SI loss of offsite power for last 10 years

3.  copy of all procedures required for a control room vacative shut down

copy of the Boric Acid Control program document

AR-CR.1  
AR-Func.1-5

Licensee Acknowledgment: 

Date: 3/27

# Inspection Request

Ginna SSDI TR 2003-002

Request # 4

Requester: L ANDERSON

Date: 3/27/03

Request: SI DRAWINGS / DOCUMENTS

2. Request drawings:

- #33013-1247 SI system - low head RHR
- #33013-1261 RWST
- #33013-1262 Topic unknown, however it is referenced on FSAR Table 6.3.8 as depicting SI valves/interlocks
- #33013-1266 BAST
- #number ??? Drawing showing location of relief valve on SI pump discharge header (indicated on FSAR p. 269)

@Request letter from Crutchfield to Maier- Subject "SEP Topic VI-7.B:ESF Switchover from Injection to Recirculation Mode, Automatic ECCS Realignment, Ginna," dated December 31, 1981.

16. Request letter from A. Miller, Ingersoll-Dresser Pumps, to G. Hermes, RG&E, dated June 16, 19997 as referenced as data source for FSAR Figure 6.3-2 as it relates to the NPSH-R for SIPs

17. Request SI pump vendor manual.

20. Request last SI pump oil change analysis data. Request documentation of procedural verification of Vendor Manual oil pressure/flow rate requirements.

21. Request CCW to SI pump and SW to SI pump Vendor Manual flow/temperature requirements and procedural verification. Results of CCW or SW flow balancing to SI pumps?

Licensee Acknowledgment: [Signature]

Date: 3/27

**Inspection Request**

**GINNA SSOI IR 2003-002**

Request # 4<sup>6</sup>

Requester: H. ANDERSON

Date: 3/27/03

Request: SI CALCULATIONS RE LEVELS, VOLUMES, SETPOINTS

3. Request calculation of values/setpoints/correlation for \_\_\_\_\_  
accumulator:

Pressure >/= 700 psig & </= 790 psig (TS SR 3.5.1.2) \_\_\_\_\_

Water volume 1139 ft<sup>3</sup> max / 1111 ft<sup>3</sup> min (TS SR 3.5.1.2) \_\_\_\_\_

Level 14" span corresponding to indicated 0-100% (TS B3.5.1-1) \_\_\_\_\_

4. Request calculation of values/setpoints/correlation for RWST volume and level:

Capacity 338,000 gal LAND DRAWDOWN/TIMELINE \_\_\_\_\_

6" below top 331,000 gal evaluated in seismic analysis \_\_\_\_\_

Minimum 300,000 gal TS SR 3.5.4.1 indicates @ 88% \_\_\_\_\_

Calculation that no action required for 22.4 minutes -FSAR p. 281 indicates calculated for LBLOCA and conservatively high pump flow rates. \_\_\_\_\_

High-low level alarm @28% for operator switchover of RHR pumps \_\_\_\_\_

Calculation of 8 minutes to transfer RHR pump suction \_\_\_\_\_

Low-low level alarm @ 15% switchover of SI pumps & 1 CS pump suction (<<<note 1 CS pump as described in FSAR p. 281 - Why only 1?) \_\_\_\_\_

23. Request calculation of Sump B level and volume correlation and indication. \_\_\_\_\_

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Licensee Acknowledgment: [Signature]

Date: 3/27



# InsDection Reauest

Ginna SSOI IR 2003-002

Request # 87

Requester: H. ANDERSON

Date: 3/27/03

Request: SI PUMP RUNOUT, MIN FLOW, VORTEXING, NPSH, VOIDING

10. Are there runout issues/calculations related to the SI pumps, or to the RHR pumps either during injection or recirculation.. Is there any potential flow boost to the SI pump flow when piggybacked to RHR that would approach runout? Request evaluations/calculations, if any.
11. Request evaluation documenting FSAR p. 272 indication that " ... SI high pressure branch lines designed for **high** pressure losses to **limit the flow rate** out of the branch line which may have ruptured at the connection to the reactor coolant loop."
12. Request evaluation documenting TS p. B 3.5.2-5 indication that the LBLOCA event (LBLOCA, LOSP, single failure disabling one RHR pump) establishes the requirement for **runout** flow for the ECCS pumps, as well as max response time for their actuation.
13. Request evaluation of SI pump minimum flow in relation to:  
- What is minimum flow requirement per pump per the vendor? FSAR p. 265 indicates orifices ensure acceptable pump minimum flow whenever the main SI flow path is passing little or no flow (100 gpm orifice). Are there minimum flow issues? Are there strong/weak considerations re minimum flow? Are there flow path diversion issues where minimum flow line takes away from injection flow requirements?  
S A R p. 260 indicates SIPs tested during operation thru minimum flow recirculation lines iaw IST - mother location indicates testing thru minimum flow recirculation line and also thru a separate test line?
14. Request RWST and Sump B vortexing calculations.
15. Request SINPSH calculation. FSAR indicates NPSH evaluated for SI for both injection and recirculation modes. Request RHR NPSH calculation in recirculation mode to support following information in FSAR p. 284:  
1 RHR + 1 or 2 SIPs w/RCS pressure 57 psi >cont. pressure  
1 RHR + 1 SIP & 1 CSP w/cont. pressure >= 17 psig  
EOP to stop CS at end of injection **and** may restart w/ containment pressure > 28 psig - stop when containment pressure reduced to < 22 psig
22. Request documentation of SI pump suction voiding issues at Ginna, if my. What experience at Ginna? What size or percentage of allowable voids? Request calculations, measurements, etc., if any.

Licensee Acknowledgment: \_\_\_\_\_ [Signature] \_\_\_\_\_

Date: 3/27

# Inspection Request

Ginna SSDI IR 2003-002

Request # 48

Requester: H ANDERSON

Date: 3/27/03

Request: SI ARs/EWRs/TMs/PCs

Request **SI** items id'ed on diskettes

**ARs**

- #2000-0959 8/15/00 MOV 871 allowable stroke time > assumed in accident analyses
- #2000-0870 8/17/00 Stroke time limits on IST summary inconsistent w/accident analysis assumptions.

**EWRs**

- # 3881/01165/0106 SIP recirculation
- # 4971/01291/4412 Install SIS redundant flow loop

**TMs**

- #2001-0012 Temp accumulator makeup pump (seems this was indicated later to become a permanent modification?)

**PCRS**

- #94-002/01225/2939 BAST/RWST logic
- #95-063/01329/0970 RWST modification
- #98-046/07742/0084 Raise set pressure of RV-887
- #99-065/07645/2181 Level indicator for RWST
- #2002-0035 11/20/02 Permanent installation of SI makeup pump
- #2002-0060(8?) 3/03/03 Generic PCR Permanent Replacement of CS SW Piping w/SS

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Licensee Acknowledgment: 

Date: 3/27





# Inspection Request

Ginna SSDI IR 2003-002

Request #

411

Requester:

H ANDERSON

Date:

3/27/03

Request:

LOADING / FO CONSUMPTION / TANK LEVELS - VOLUMES

2. Request DA-EE-92-098-01 Latest Rev 3? - EDG loading calc.  
Request DA-EE-92-120-01 Latest Rev 3? - EDG loading calc.  
SAR tables indicate 1950kw continuous rating is exceeded for some period of time?  
How long is this time? Request evaluation of the effect of exceeding 1950 rating.
3. Request documentation of Ginna commitment to Reg. Guide re suction from day tank being elevated above bottom of day tank? Request commitment and associated volume/level calculation.
4. Request documentation of Ginna commitment re calculation of fuel oil consumption at continuous rating or at load profile plus 10%. Request commitment and associated calculation.
5. Request documentation of fuel oil consumption rates for diesel engine and fuel oil specifications re energy content?  
Request evaluation of FSAR section 9.5.4 indication that consumption per EDG is 2.84 gpm @ 110% load including all uncertainties
6. Request calculation of fuel oil levels/volumes in storage tank? Day tank?  
Instrumentation setpoints?
10. Request procedure and associated calculation demonstrating:  
SR3.8.1.4 - day tank level  
SR3.8.1.5 - transfer from storage tank to day tank - does this test the two modes as described in the SAR?  
SR3.8.3.1 - each storage tank contains  $\geq 5000$  gallons
11. TS B3.8.1-6 indicates day tank is available to provide fuel oil for  $\geq 1$  hour @ 110% design loads - request supporting calculation.
12. Fuel oil availability appears to be indicated to support operation at design rating for 24 hours w/ additional delivery available w/in 8 hours and to ensure support of design loads of required equipment for 40 hours/train or 80 hours w/only 1 train. Request calculation/documentation.

Licensee Acknowledgment:

ent:



Date: 3/27





**Inspection Request**

**GINNA SSDF I R 2003-002**

Request# 14 Requester: H ANDERSON Date: 3/27/03

Request: EDG ARS/EWRs/TMs/PCRS

Request **EDG items id'ed from DISKette**

**ARS**

#2001-0087 1/19/01 DG & support systems should be reviewed to verify adequacy of PM

#2001-0618 4/19/01 INPO SER 2-01 EDG failure from inadequate performance monitoring and response to symptoms of impending failure

#2000-0877 8/1/00 Tube wall degradation in D/G A jacket water heat exchanger.

**Request also its referenced S/W analysis DA-ME-98-138 Rev 1 as it relates to plugging up to 153 tubes w/SW temps of 85 oF.**

#2000-1266 9/28/00 A fuel oil transfer discharge pressure low

#2001-0080 1/17/01 INPO Significant Event Notification - based on Seabrook experience

#2001-1302 Seagrass causes high D/P on D/G coolers

#2002-1839 Backflush of D/G coolers due to elevated D/P

**EWRs**

#10358/01402/1837 D/G prelube pump evaluation

#3596/01143/0469 D/G air system

#4140/01157/1259 Alt cooling water to D/G and standby afw

**TMs**

#94-012/06104 D/G cooler alternate discharge flow path

**PCRS**

#2001-0047/07879/0343 Removal of valve internals from EDG fuel oil discharge check valves

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\_\_\_\_\_  
\_\_\_\_\_

Licensee Acknowledgment:

Date: 3/27

# Inspection Request

Ginna SSDI IR 2003-002

Request # 15

Requester: Pindale

Date: 3/27/03

Request: \_\_\_\_\_

IST: • Completed IST test procedures (last completed

one is okay) for IST pump & valve

components in EDG & SI systems

✓ Also, provide trend data for above parameters (for last 3 years).

• IST Prog listing of pumps & valves

(IST Requirements - EDG-includes support systems; & SI)

Mnt: • Repeat. Maint AIRs or VUs - EDG/SI systems

Licensee Acknowledgment: \_\_\_\_\_



Date: 3/27





**Inspection Request**

**Ginna SSDI IR 2003-002**

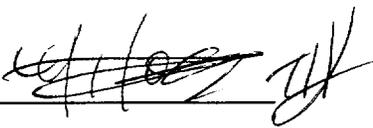
Request # 17

Requester: Mel Gray

Date: 3/27/03

Request: ~~last~~ copy of last completed  
RSSP-2.1, "SI functional test."

Copy of last completed RSSP-2.1A, "SI  
Functional Test Alignment / Rc-Alignment."

Licensee Acknowledgment: ~~\_\_\_\_\_~~ 

Date: 3/27

**Inspection Request**

**Ginna SSDI I R 2003-002**

Request# 18

Requester: Mel Gray

Date: 3/27/03

Request: \_\_\_\_\_

~~Need access, or copy of~~

Drawing 33013-1353, all sheets  
(diesel starting logic diagram)

Also, schematics for diesel start and  
control circuits.

Licensee Acknowledgment: 3/30 [Signature]

Date: 3/27

# Inspection Request

Ginna SSDI IR 2003-002

Request # 19

Requester: Mel Gray

Date: 3/27/03

Request: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
AR # 2001-0087, plus ARs referenced in  
this AR. Include evaluations and  
corrective action descriptions.  
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Licensee Acknowledgment: 3/31 [Signature]

Date: 3/27

✓

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Ginna SSDI    2003-002

Request# 20

Requester: Mel Gray

Date: 3/27/03

Request: \_\_\_\_\_

AR # 2000-1278, including evaluation  
and corrective actions.

(edg wiring problem ~~being~~ not identified by  
testing).

Licensee Acknowledgment: 3/30 [Signature]

Date: 3/27

**Inspection Request**

**Ginna SSDI IR 2003-002**

Request # 21

Requester: Chenng

Date: 3/27/03

Request: EEA-01001, EDG Dynamic loading  
cal

This cal was completed in 1991.  
Any <sup>significant</sup> load changes?

Do you include the ~~time delay~~ tolerance  
tolerance of the sequences time  
delay relays? eg. the relay for  
the 1st SI pump drifts forward while  
the relay for the 2nd SI pump  
drifts backward.

Licensee Acknowledgment: 

Date: 3/27

✓

## Inspection Request

Ginna SSOLIR 2003-002

Request # 22

Requester: Chavone

Date: 3/27/03

Request: \_\_\_\_\_

EEA-01002, EDG SS loading Cal was completed in June 1991. The post SE loading (2094 KW) was in the 2-hour rating for both the generator (continuous rating: 1950 ~~2000~~ KW) and the diesel engine (cont. rating 2051 KW).

① Any load increase from 1991 to 2003 due to ~~new~~ plant modifications?

② Do you need to address the limitation for operating the diesel engine in the ~~2~~ 2-hour rating range? eg. how many hours that had been used after engine over-haul.

Licensee Acknowledgment: \_\_\_\_\_

JH

Date: 3/27

# Inspection Request

Ginna SSDI IR 2003-002

Request #

27 (2 pgs)

Requester:

Chuang

Date:

3/27/03

Request:

Need the following documents:

① One line diagram from switchyard to 480V.

② RWST Drawing

③ RWST level set-point cal.

④ ~~loop~~ Instrument loop diagrams for:

LT920, 921; LT938, 939, 935, 934.

PT940, 941, 936, 937

⑤ Logic diagrams for: a) SI signal initiation;

b) MOV: 871A, B, 850A, B, 1815A, B, C, D;

841, 865, 897, 898, 857A, B, C,

860A, B, C, D.

c) AOV 846, 836A, B.

~~⑥ Calibration records for instrument loops.~~

⑥ Latest 2 calibration records for

instrument loops: LT920, 921, 938, 939

LT934, 935,

control voltage and degraded voltage relays for 480V buses 14, 16, 17, 18.

Licensee Acknowledgment:

TH

Date:

3/27

27 (pg 2) ✓

**Inspection Request**

**Ginna SSDI IR 2003-002**

Request # \_\_\_\_\_

Requester: Cheruf

Date: 3/27/03

Request: Continued.

⑦ Latest calibration record for the EDG ~~sa~~ load sequencers.

⑧ EDG load sequencer schematics.

Licensee Acknowledgment: \_\_\_\_\_



Date: 3/27

**Inspection Reauest**

**Ginna SSDI IR 2003-002**

Request # 24

Requester: Norris

Date: 03/31

Request: view of

F-0.1

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Licensee Acknowledgment: [Signature]

Date:

# InsDection Reauest

Ginna SSDI IR 2003-002

Request # 25

Requester: J ANDERSON

Date: 3/31/03

Request: \_\_\_\_\_

① T<sub>Spec</sub> SR 3.5.1.2 ACC VOL  $\geq 1111 \text{ ft}^3$

Ch 15 Table 15.6-9 has  $1100 \text{ ft}^3$  <sup>(b)</sup> with a <sup>(b)</sup> footnote that "000" has been changed to  $1125 \text{ ft}^3$  & applies a  $-25^\circ$  to PCT associated with the  $1125 \text{ ft}^3$ .

IS A TS ACC VOL  $\geq 1111 \text{ ft}^3$  CONSISTENT WITH THE Ch 15 Table 15.6-9, the footnote (b) AND THE  $-25^\circ$ ?

② T<sub>Spec</sub> SR 3.5.1.3 INDICATES ACC PRESS  $> 700 \text{ psia}$  ( $714.7 \text{ psia}$ )

Ch 15 <sup>(T15.6-4)</sup> INDICATES  $> 715 \text{ psia}$  + UNCERTAINTIES  $(714.7 \text{ psia})$ . IS A TS ACC PRESS  $> 700 \text{ psia}$  CONSISTENT WITH Ch 15 (?) WHERE ARE THESE UNCERTAINTIES DOCUMENTED (?)

Licensee Acknowledgment: \_\_\_\_\_

Date: \_\_\_\_\_

# Inspection Request

Ginna SSD: IR #:

Request# 26

Requester: M. Gray

Date: 4/1/03

Request: \_\_\_\_\_

Greg Joss is getting for following, last completed procedures:

RSSP-23 (Si pump interlock insp)

RSSP-1.1 (Si survey count)

Not  
required

~~RSSP-19~~

~~(UV ETOE start)~~

RSSP-20

Licensee Acknowledgment: \_\_\_\_\_

4/1/03 

Date: \_\_\_\_\_



is reading from test on 04/01  
1) will the EDC's sum if the two suppression  
systems activate?

2) on "B" D/g, gaseous end - west side, the plate  
appears "out of place"

3) Parker said he would provide the  
Appendix R matrix

4) - by the "B" 5I pump - a 55-gallon drum  
a smaller drum with angle chain around  
hole - air they normally vented  
- is there a temporary storage permit?

5) 5963 notes for fuel transfer system - is it  
15T program?

6) 5961 note has notes, journal, test  
opportunity in 15T program

7) Note notes (1830 G) on 5I - many openings  
needed - provide matrix, history

8) want history for air flow meters

9) by ECOS pumps, ventilation balancing  
calculation/walk package

10) balancing of CCW/3W to and make  
flow openings & throat leaving

11) both EDC's do they have a common  
"wiring" over both combustion intake?  
power energy with respect to common  
mass balance

- 12) 5I CCW hot Htrags (copy)
- 13) 5I HVAC air question
- 14) MD the Group Station

Barry

Barry

Barry

Barry

Frank

Steve

Steve

4/16/03  
Steve

Howard

Demand

Mr

Mr

Mr

Inspection Request

Ginna SSDI IR

Request # 28

Requester: Pindale

Date: 4/1/03

Request:

① IST trend graphs (3 yrs) for flow (or dp) + vib for  
 • all 3 SI pumps  
 • both RHR pumps  
 • both D/G Fuel oil transfer pumps.

② IST stroke time graphs (3 yrs) for the following:

RHR Values (MOV's)

720 / 721 / 856 / 850A / 850B / 857A / 857B / 857C

SI Values

842A / 842B

b/g

5934A / 5934B / 5933A / 5933B / 5908 / 5908A

Licensee Acknowledgment: 

Date: 4/1

**Inspection Request**

**Ginna SSDI IR 2003-002**

Request # 29

Requester: Pindale

Date: 4/1/03

Request: \_\_\_\_\_

Any planned maintenance or IST  
on SI / RHR / DG systems during the  
weeks of 3/31/03 or 4/14/03?

Please provide schedule.

Licensee Acknowledgment: 

Date: 4/1

**InsDection Reauest**

**Ginna SSDI IR 2003-002**

Request# 3

Requester: Pindale

Date: 4/1/03

Request: \_\_\_\_\_

Copies of the following A/Rs (If already copied for other team members, so indicate).

<u>SI System</u>	<u>DG</u>
<u>2000 - 0529</u>	<del><u>2000 - 1237</u></del>
<u>- 0959</u>	<u>2000 - 0865</u>
<u>- 0291</u>	<u>- 0877</u>
<u>- 0915</u>	<u>- 1266</u>
	<u>- 1273</u>
	<u>- 0046</u>
<u>2001 - 0167</u>	<u>2001 - 0051</u>
<u>- 0648</u>	<u>- 1302</u>
<u>- 0952</u>	<u>2002 - 1839</u>
<u>- 1011</u>	<u>2000 - 0572</u>
	<u>2001 - 0082</u>
	<u>- 0973</u>
	<u>- 1404</u>
	<u>- 1921</u>
	<u>2002 - 0917</u>

Licensee Acknowledgment: 

bate: 4/1

I Request

1 SSDI IR 2003-002

Request # 31 request : Arner date: \_\_\_\_\_

Request: \_\_\_\_\_

Request Discussion with JOE PACURR concerning a historical  
A/R # 99-0488 OUT OF TOLERANCE OF LUBE OIL MALL TEMP SW.

CPI - INSTR - 64B

The TS-2901 was found -AF 200.1 - 200.5 °F out of range  
due to potential drift from vibration

Question - Has Switch been calibrated since AR 99-0488?

IF so, what was As Found setpoint?

Since the drift was higher than expected, was  
frequency of calibration changed to affect this?

Licensee Acknowledgment: 

date: 4/1

1 Request  
Ginna SSDI IR      2

Request# 32

ster: A. -

Date: \_\_\_\_\_

Request: \_\_\_\_\_

DISCUSSION WITH Ralph Davis QA concerning  
QA SUR. REPORT SQUA-2003-0025-ETD (PCR 2001-0047  
Change) Picul Fuel Oil Transfer Pump Disch. Check Valve.

Licensee Acknowledgment: \_\_\_\_\_



Date: 4/11

I  
Ginna SSOI IR 2003-002

Request # 33

Requester: Pindale

Date: 4-1-03

Request: \_\_\_\_\_

last 3 completed ~~data~~ (data sheets)  
for RSSP-24 (SI Accum Check values)

Licensee Acknowledgment: \_\_\_\_\_

Date: 4/1

# InsDection Request

Ginna SSDI IR      X02

Request # 34

Requester: H AND J!

Date: 4/1/03

Request: \_\_\_\_\_

CALCULATION OF WATER ELEVATIONS IN THE CONTAINMENT

4/0V OVER THE CONTAINMENT FLOOR AT ELEVATION 235'8" INCLUDING SOURCES OF INPUT, SUBTRACTIONS, ETC. INTERESTED IN ELEVATION DETERMINATION IN RELATION TO NPSH AVAILABLE SUMP B → RHR PUMPS ON RECALCULATION.

I HAVE SEEN INDICATIONS THAT:

154,600 gal total "on floor" in CONTAINMENT (from RWST)

30,000 gal holdup in REF CAVITY (from RWST)

VOL Sump A 6020 ft<sup>3</sup>

" " B 992 ft<sup>3</sup>

113" ON LC-942C CORRESPONDS TO EL 236'7" (CALCULATION

INDICATED IN  
DA-EE-92-

048-21 1/8

PROVIDE  
DESIRETS

NPSH)

Licensee Acknowledgment: \_\_\_\_\_

TW

Date: 4/1

## Inspection Request

Ginna SSDI IR 2003-002

Request # 35

Requester: Arner

Date: 4-1-03

Request: \_\_\_\_\_

Sensy Water Delta P limits for DG's appear to be based on 2 or 3 SWP's running.

A/R 99-0401 documented the concern that other lineups such as 1 SW Pump during on outage are not addressed.

O-6.13 was revised to include NOTE to consult S.E. for limits during Modes 5 & 6 when lineups different.

Q: Why are limits in 1 SW configuration not addressed in Procedure vs. contacting S.E.?

What would S.E.'s answer be?

What would limits be for Accident Condition where potentially 1 SW Pump is running supporting the Recirculation Phase of operation (i.e. CW No Flow, EOG flow, etc)

How would OPS know when they'd have to BackUp for worst case scenario?)

Licensee Acknowledgment: TW

Date: 4/1

**Inspection Request**

**Ginna SSOI IR 2003-002**

Request # ~~46.36~~

Requester: Storici

Date: 04/02/03

Request: \_\_\_\_\_

provide copy of TM 2001-0012

SEV-1077

PSA eval (email from

Mallucci to Berthiaume, etc 09/27/01

Licensee Acknowledgment: 

Date: 4/2

**Inspection Request**

**Ginna SSDI I 2003-002**

Request# 37

Pindale

Date: 7-2-03

Request: \_\_\_\_\_

Set up interview with Eng +/or Mnt to discuss breaker probs associated with EDG output brkrs; SI pump (3), RHR pump (2), AFW (2), Cont Spray (2), + SW (4) breakers.

Also, please have relevant documentation of recent brkr probs or failures.

Licensee Acknowledgment: \_\_\_\_\_



Date: \_\_\_\_\_

7/2

**InsDection Request**

**Ginna SSDI IR 2003-002**

Request # 38

Requester: L Cheung

Date: 4/2/03

Request: \_\_\_\_\_

FSAR 15-6.4.2.4.4<sup>AA</sup> 1.G & TABLE 15.6-15

INDICATE LB LOCA TIME SEQUENCE

SI FLOW OFF (SEGR. POWER) 44 SEC

HHSI RESTORED (full flow) 44.5 SEC (1.5 SEC REQD?)

LHSI (RHR) RESTORED (full flow) 61 SEC (17 SEC REQD?)

PLEASE PROVIDE BASIS FOR 1.5 & 17 SEC TIME TO RESTORE  
full flow

Licensee Acknowledgment: 

Date: 4/1

1 Request  
Ginna SSDI IR 2003-002

Request # 39

Requester: Arner

Date: 4-2

Request: \_\_\_\_\_

Previous AE team inspection identified concerns with RB+E's process for controlling analytical inputs when interfacing with vendors.

RB+E responded to AE team Finding stating they would develop a process or Eng. Guideline to provide controls for prep, review and approval of analytical inputs to vendors.

\* Request the Procedure or Guideline for this currently used.

Licensee Acknowledgment: TW

Date: 4/1

# Inspection Request

Ginna SSDI IR 2003-002

Request # 40

Requester: H.S. Anderson

Date: 4/2/03

Request: \_\_\_\_\_

o AT REFUELING INTERVAL D/G START

- SHOULD ACC PRESSURE BE REDUCED TO

COMPRESSOR START PRESSURE BEFORE D/G START ?

- IS AIR START MOTOR PERFORMANCE (TIME?)

MEASURED EACH REFUELING INTERVAL AND/OR

ANY TRENDS DONE TO EVALUATE ~~THE~~ DEGRADATION?

PLEASE PROVIDE PERFORMANCE/TREND RESULTS SINCE 1992  
TIMEFRAME.

Licensee Acknowledgment: 

Date: 4/1

**Inspection Request**

**Ginna SSDI I R 2003-002**

Request #

441

Requester:

Cheung

Date:

1/2/03

Request:

Need control logic for  
AOV 835A, B (SI tank fill valves)

Licensee Acknowledgment:

[Signature]

Date:

1/1

i Request

Ginna SSDI IR 2003-002

Request # 42

Requester: - Chening

Date: 4/2/02

Request: RHR pump  
SW pump  
CONT AIR REZIR FAN  
M/D AFW pump  
CONT Speng pump  
PCW pump

} PUMP/FAN CURVES SUPPORTING  
BHP → KW VALUES USED OR REPORTED  
ON FSAR TABLES 8.3-2a & b (D/G LOADING)

Licensee Acknowledgment: 

Date: 4/11

# Inspection Request

Ginna SSDI IR 2003-002

Request # 43

Requester: Pindale

Date: 4/2/03

Request: \_\_\_\_\_

WO description/summary/work performed for following WOs:

(Note - Do not need entire package - e.g., procedures, etc)

20300142	19902003
20104000	19900967
20200875	19703523
	19605116
20300659	19801675
19700982	19604123
20102181	20202054
	20103055
19804807	19602062
20002053	19600156
20100146	19703181
20100167	19703344
19902224	19700735
19902364	20002695
19902225	

Licensee Acknowledgment: 

Date: 4/1

# Inspection Request

1a SSDI IR 2003-002

Request# 44

ster: \_\_\_\_\_

Date: 4/2

Request: EDG OPERABILITY:

TS B 3.8.1-6 indicates Service Water  $\Delta P$   
 thru EDG Header is w/in limits specified in  
 plant operating procedures for the then existing  
 SW system configuration

HONE Circs DA-ME-98-138 Rev1

DA-ME-98-139 Rev1

① PLEASE PROVIDE OP. PROCEDURES VERIFYING  $\Delta P$  LIMITS

for 1,

2,

3 SW pumps in operation.

② CALC DA-ME-98-139 Rev1 DEVELOPS  $\Delta P$  LIMITS FOR

2 & 3 SW pumps in operation. (pg 18, FIG 1)

PLEASE PROVIDE DEVELOPMENT OF  $\Delta P$  LIMIT FOR 1 SW PUMP IN

OPERATION.

③ VERIFY NO DEGRADATION ASSUMED IN X-138 & X-139 FOR SW PUMP

④ WHAT <sup>REQUIREMENTS</sup> RESTRICTIONS ARE PLACED ON ISOLATING SW LOADS  
W REDUCED (1 OR 2 SW PUMPS IN OPERATION) SW PUMPS IN

Licensee Acknowledgment: TW

Date: 4/1 SERVICE.

Inspection Re

Ginna SSDI IR 2003-002

Request # 45

Requester: Norris

Date: 04/03/03

Request: \_\_\_\_\_

provide any material (engineering, training, procedures, ...) discussing valves from RNR to 6I

1815 A & B MOV's

1816 A & B HV's

Licensee Acknowledgment: 

Date: 4/3

Inspection : q e

SSDI I R 2003-002

Request# 46

Requester: Are -

Date: 4-3-03

Request: \_\_\_\_\_

Supply Liney - Checklist Procedure which  
ensures that Bus TIE Breaker BT17-18  
is maintained in the test position while the  
plant is operating

Licensee Acknowledgment: 

Date: 4/3

Inspection Request

Ginna SSDI IR 2003-002

Request # 47

Requester: Norin

date: 04/03

Request: \_\_\_\_\_

copy of close out documentation for  
Temp Mod 2001-0012; specifically,  
procedure 5-16.13 was not revised

(already discussed w/ Tom Harding)

Licensee Acknowledgment: TGJ

Date: 4/3

**Inspection Request**

**Ginna SSDI I R 2003-002**

Request # 48

Requester: M. Gray

Date: 4/3/03

Request: \_\_\_\_\_

Arc SI and EOG stand-up testing results  
available? info ~~significant~~ Request to Ted Miller.  
German to AIA # 2000-1278, status of condition

Licensee Acknowledgment: TLV

Date: 4/3

I ection Request

Ginna SSDI IR 2003-002

Request # 49

Requester: Pindale

Date: 4/3/23

Request: \_\_\_\_\_

Provide Maintenance History for  
valves: MOVs 1815A / 1815B, and  
Man Valves 1816A / 1816B.

Licensee Acknowledgment: 

Date: 4/3

## Inspection Request

GINNA SSOL TR 2003-002

Request # 50

Requester: H. Anderson

Date: 04/08/03

Request: \_\_\_\_\_

1. Calculation DA-ME-97-045, Rev. 0 identifies as input #4.4.20 the Johnson Pump Company Certified Test Curve (bronze impeller) dated 8/17/98. The test curve is identified in the title block as having been revised by Rev #1 to correct performance due to measurement error with initials R.H.D and date 9/12/20.

This curve is at 1786 rpm. Item A9.6 of the calculation indicates "from the Johnson pump curve at 1783 rpm, the nominal TDH at 5600 gpm is 161 feet" and determines a degradation ratio to be applied to the nominal pump curve based on 131.4 feet / 161 feet or 0.82. The curve at 1786 rpm indicates a TDH of 155 feet at 5600 gpm. Have the evaluations included consideration of the slight differences in rpm? Regardless of considering the 3 rpm difference, has A9.6 been updated to correspond to Rev #1 to the curve? (0.82 may be a conservative result?)

Rev #1 of the curve indicates 135 feet @6000 gpm and 70 feet @7000gpm, whereas the table at A9.9 of the calculation indicates 146 and 90 respectively? Has this been updated to Rev #1 of the curve? The degraded pump head in the same table is based on the 0.82 ratio above (may be conservative?) and on the higher 146 and 90 developed head (may be non-conservative?).

2. Calculation DA-ME-97-045, Rev. 0 identifies as input #4.4.21 the Johnson Pump Company Certified Test Curve (SS impeller) dated 8/28/97. The test curve is identified as being at 1783 rpm and was used in the maximum flow analyses with 10 feet additional head.

CATS M07360 closure verification form indicates "(another) new pump curve from 10/15/98 testing (with SS impeller) attached. All numbers are conservatively less than DA-ME-94-045 Rev. 0 maximum pump head curve in Attachment 9...." This referenced new pump curve is at 1786 rpm whereas the 8/27/97 curve was at 1783 rpm. Did the closure evaluations include consideration of the slight differences in rpm? Without considering the 3 rpm differences, from the scale of the two curves it is difficult to determine that the 98 curve is "conservatively less" than the 97 curve - confirm this "conservatively less" statement.

3. Will calculation DA-ME-2000-036 Rev. 1 for the CCW Hx delta-P limits for Service Water flow (62-66 inch for normal discharge and 43-46 inch for alternate discharge) be on the CD's we have (do not have laptop with me w/CD capability today/tomorrow) or on the electronic system at Ginna?

If on neither, a copy is requested for Monday 4/14/03.--- H. S. Anderson

*TSJ* 4-14

**Inspection Request**  
**Ginna SSDI IR 2003-002**

Request ## 51

Requester: Anderson

Date: 4/9

Request: \_\_\_\_\_

1. DA-ME-91-0011 uses a figure D/G F.O. Consumption vs. Load table as its Attachment 1 which is indicated to be based on Design Input 3.2. No explanation of this table is included to indicate if a percentage on the x-axis ("Percent rated capacity (1950 KW)") of the figure such as say 100% (=1950 KWe rated generator capacity) has been divided by overall generator efficiency of 0.95 to arrive at a D/G KW (1950 KWe/0.95 = 2053 KW) >>> or converting to bhp = 2752 bhp which the EDG must develop and then the D/G fuel consumption at this 2752 bhp has been determined and is plotted on the y-axis ("D/G Fuel Consumption (#/HR).". If this isn't done internally in this figure, it would appear the calculation may be non-conservative by approximately the 1/(overall generator efficiency) factor. Request for Monday 4/14 the background of this figure and also documentation of manufacturer's testing of D/G consumption rates (lbs/bhp-hr! ?) and minimum fuel heat content.

Recognizing that the average of 2 EDGs' fuel consumption and total of 10,000 gallons for 2 tanks is used in the calc., when considering just the EDG#1 fuel usage of 33075# or 4796 gallons, if overall generator efficiency is NOT already factored into the Attachment 1 then in Section 6.1 4796 gal.+ approx. 174 gal. (if not already considered) + 220 gal. unusable volume = 5190 gallons needed. The **TS SR** 3.8.3.1 requirement that each fuel oil storage tank contains >= 5000 gallons of diesel fuel oil for each required diesel would not cover the above, without relying on excess in the other storage tank.

For the 2 EDG's in Section 6.1, 8846 gal + 174 gal. (if not already considered) x 2 + 220 gal x 2 = 9634 gal = **OK**

For the 2 EDG's in Section 6.2, 9234 gal + 174 gal. (if not already considered) x 2 + 220 gal x 2 = 10,022 gal ?

Section 6.1 subtracts 291 KW(e?) from the 2.5 hr. loads for DG#1 to reflect 1-SIP not operating and uses this for DG#2. What is the purpose of subtracting 246 KW(e?) from the 5.5 hrs and 32.0 hrs loads for DG#1 loads to arrive at DG#2 loads?

In Section 6.3, no explanation is given of why the 32,120 gal remaining is reduced to 32,099 (a conservative direction). Should the overall generator efficiency be factored in here, or has it already been? For this specific calc., it appears that 220 gal x 2 = 440 gal unusable should have been subtracted out which would have resulted in a lesser time.

It appears in this calc that all DG loadings used are conservative versus the current FSAR Chapter 8 table with the exception of EDG#2 at recirculation for 5.5 hours (1528 in calc versus 1647 in FSAR) and for 32 hours (1305 in calc. versus 1647-223 (AFW pump)=1424 in **FSAR**).

The available fuel oil does support 24 hours of operation at 1950 KWe, however the calc. does not document this specifically.

Licensee Acknowledgment: 

bate: 4/9

ti ues  
Ginna SSDI IR 2003-002

Request # 52

Requester: Anderson

Date: 04/09

Request: \_\_\_\_\_

2. The **TS** SR 3.8.3.1 requirement that each fuel oil storage tank contains  $\geq$  5000 gallons of diesel fuel oil for each required diesel is not totally supported when (if?) usable volume is subtracted out. The wording in the bases appears to be supported (with minor wording ambiguities) in the calc.
3. EWR 4526 ME-23 - Confirm the tank dimensions are inside dimensions (uses 8 ft even and 16'1")? Confirm that drawdown to 7 1/2" inches remaining is assured. Calc. 1S07-M-01, Rev. 1 - Diesel Fuel Transfer Pump and Piping Modification Hydraulic Analysis - does not appear to consider the foot valve in the suction line from the tank in determination of NPSH for the fuel oil transfer pump.
4. DA-EE-99-097 - Pg. 15, last pgh - confirm for the measuring ruler that "indicated value of 76 inches corresponding to 5108 gallons (including a margin of 5.8 gallons ) will be used as the minimum acceptance level" - what is the 5.8 gallon margin a margin to? How is the margin determined? What was the source/development of the Gauge Chart on pg. 17 which indicates the tank is 96" diameter and 16' long (are these inside or outside dimensions? >>> 96" and 16' 1" were used in EWR 4526 ME-23).
5. O-6.11 Surveillance Requirement/ Routine Operations Check Sheet - Attachment 6 UST Storage Tank Level Log - This attachment indicate rounds is to inform SS of need to order fuel oil if "EDG's fuel level is <5400 gals (Operability is 76" - 5109 gals)." Where is the EDG Gauge Chart available to the rounds individual? (Charts for the other two Attachment 6 readings follow as part of Attachment 6) The EDG Gauge Chart does not appear to be a part of this procedure. Minor typo in the procedure as the EDG Gauge Chart in DA-EE-99-097 indicates 76' corresponds to 5108 (not 5109) gallons.

Licensee Acknowledgment: TJ

Date: 4/14

Inspection Issues

Ginna SSDI IR 2003-002

Request # 53

Requester: M. Gray

Date: 4/10/03

Request: \_\_\_\_\_

Provide modification package and work order  
that removed containment spray pump HVAC  
air hoods.

Licensee Acknowledgment: [Signature]

Date: 4/14

I Request

GINNA SSDI IR 2003-002

Request # 54

Requester: M. J. V. G. U.

Date: 4/10/03

Request: \_\_\_\_\_

Provide seismic support analysis for

HVAC to SI, GS, and AHA pumps.

Dwg D-108-002 indicates this ductwork  
is seismic class 1.

Licensee Acknowledgment: TW

Date: 4/14

**Inspection Request**

Ginna SSDI IR 2003-002

Request # 55

Requester: M. Gray

Date: 4/10/03

Request: \_\_\_\_\_

Provide ADR initiated for walkdown observation  
regarding ductwork.

Licensee Acknowledgment: TJH

Date: 4/14

**Inspection Request**

Ginna SSDI IR 2003-002

Request# 56

Requester: M. Gray

Date: 4/10/03

Request: \_\_\_\_\_

Provide HVAC "Gothic" code re-analysis  
described in SAC 9.4.2.4.2 Do not  
need computer print-out attachments.

Licensee Acknowledgment: TJH

Date: 4/10/03



in Request

Ginna SSDI IR 2003-002

Request# 58

Requester: M. GUY

Date: 4/10/03

Request: \_\_\_\_\_

Provide for MR's + their evaluation!

98- 10 42

99 - 0220

2000 - 1395

~~2000-13~~ Copy of MR's listed in

last completed USSP- 2-1 ( 2002-0844,

2002-0847, 2002-0849, 2002-0848,

2002-0852)

Licensee Acknowledgment: 

Date:



Inspect Reque  
GINNA SSDI IR 2003-002

Request # 60

Requester: M. Gray

Date: 4/10/03

Request: \_\_\_\_\_

Provide procedure that controls position  
of bus 17 to 18 tie breaker  
( 52/BT(17-18)).

~~See ref 6~~

Licensee Acknowledgment: TJJ

Date: 9/15





**InsDection Request**

**Ginna SSDI I R 2003-002**

Request # 63

Requester: Pindale

Date: 4-10-03

Request: \_\_\_\_\_

Last 2 completed copies of  
M-15.1M for 'A' EDG

Licensee Acknowledgment: TJH

Date: 4/14

Inspection Request

Ginna SSDI I R 2003-002

Request# 64

Requester: Pindale

Date: 4-10-03

Request: \_\_\_\_\_

~~Eval~~ Eval associated w/ AR 2001-0087  
identifies that 59 PM tasks were  
initiated or revised to incorporate  
Vendor/owner's group recommendations.  
Please provide list of changes.

Licensee Acknowledgment: 

Date: 4/14

## Inspection Request

Ginna SSDI IR 2003-002

Request # 65

Requester: H Anderson

Date: 04/10/03

Request:

1. EWR 4526-ME-20, Rev 1 - Evaluation of Instrument Setpoints for EDG Fuel Oil System - This document uses a fuel oil consumption rate of 2.23 gpm (based on s.g. of 0.89 - other calculations of consumption use 0.82?) from a telephone memo that is attached to the document. The information in the memo is unclear if the usage is at generator ratings or at diesel engine ratings corresponding to [generator rating/overall generator efficiency]. It appears the memo may be non-conservative versus the regression figure in DA-ME-91-001, and, if overall generator efficiency should be factored in, may be even more non-conservative. The apparent non-conservatism versus DA-ME-91-001 could result in the times developed in the EWR being longer than they otherwise would be.
2. The TS SR statement that "this level ensures adequate fuel oil for a minimum of 1 hour of DG operation at 110% of full load" is not documented in the EWR (no consideration of 110% of full load is addressed, nor is a summation of times). Using information in the EWR (with additional potential conservatisms) does indicate that approximately 70 minutes of run time is provided by the available fuel below the fill setpoint 8.25" above reference 0 minus uncertainty level 0.5"=7.75" above reference 0 which would satisfy the TS SR statement.
3. From the EWR it appears that physically a level on the sight glass that is 7.75" above instrument 0 (8.75" above inside bottom of day tank) would correspond to 7.75" above instrument 0 for the level control/alarm loop. The TS SR specifies a level of 7.75" as read on the sight glass. Please confirm that the TS SR 7.75" level marking on the sightglass physically is 7.75" above the instrument 0 for the level control/alarm loop (that is, it physically is 8.75 inches above the inside bottom of the day tank.)
4. Calc. No. 1S07-M-01, Rev. 1 indicates on pg. 6 (Special Notes) that "K values ... were increased to account for the fact that flow is not fully turbulent." The extent of this "increase" is not specifically addressed in the calculation? Are the suction foot valve and inlet screen included in the evaluation? Pgs. 7, 8, and 9 of the calculation indicate that the elevation difference between the bottom of the storage tank (224') and top of the day tank (256') = 12 feet. Page 11 indicates the overall lift = 10 feet as used in the calculation which appears reasonable - please confirm actual elevation differences? Page 13 indicates static lift to pump suction = 8 feet which also appears reasonable - confirm elevation differences also.

Licensee Acknowledgment: TW

Date: 4/14

## InsDection Request

GINNA SSDI IR 2003-002

Request # 66

Requester: B Norris

Date: 04/10/03

### Request:

1. Please provide hard copy of below ACTION Reports:  
2003-0652, -0651, -0650, -0423, -0271  
2002-2498, -1729, -1295, -1256, -0929, -0890, -0889, -0888,  
-0477, -0364  
2001-2218, -1901, -1893
2. Please provide hard copy of OE review of below Generic Communications:  
INPO SEN 176  
NRC IN 97-90, -60, -41  
NRC GL 97-04

Licensee Acknowledgment:

Date: 4/14

**Inspection Request**

**Ginna SSDI IR 2003-002**

Request # 67

Requester: Pindale

Date: 4-10-03

Request: \_\_\_\_\_

PT-2.1Q requires collection/recording  
of SI pump thrust bearing temperatures  
(cooled by SW); pts POCL + POT.

PT-2.1Q states these should be compared  
to IP-REL-2 criteria.

Provide IP-REL-2 criteria &  
any associated data trends/graphs  
for all 3 SI pumps.

Licensee Acknowledgment: 

Date: 4/14

#68

MONDAY 4/14/03

H. Anderson

#1-4 of 5

① CALC DA-NS-97-065 IS INDICATED TO BE BASED ON A TS MINIMUM VOLUME IN RWST OF 301,400 gal. ACTUAL TS REQUIREMENT IS BASED ON 300,000 gal. CALC APPEARS NON-CONSERVATIVE BY -1,400 gal. CALC NSL-0000-DA027 REV 1 APPEARS TO SUBTRACT THIS -1,400 gal effect for 28% → 2.75 ft level but not for the 3.66 ft (15%) level.

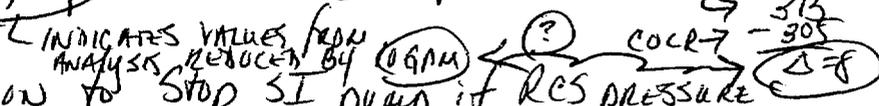
② HOW IS REFUELING CAVITY HOLDUP OF 3778 ft<sup>3</sup> (MAXIMUM) CALCULATED? PLEASE PROVIDE CALCULATION. WHAT CAUSED THIS 3778 ft VALUE TO INCREASE FROM VALUE USED IN EARLIER EVALUATIONS (DESIGN INPUT 3.7 ONLY LISTS DWGS 33013-2105 & -2132 - IT DOES NOT INDICATE ANY APPARENT CALCULATION OR EVALUATION)

③ NSL-2258-DA033 - LOCA ANALYSIS INJECTION CURVES (RHR & SI)

◦ SLIGHT DISCREPANCY w/ RHR 0 degradation & 5% degradation CURVES

GPM	ANALYSIS TABLES		PUMP CURVE	
	NON DEG	5%	NON DEG	5%
0	338 ft	324.8	336	322.8

◦ DISCREPANCY (pg 11 & TABLE 18) @ 600 PSIA RCS PRESS LOAD A UNIT GPM



④ EOP HAS A CAUTION TO STOP SI PUMP IF RCS PRESSURE IS > SHUTOFF HEADS PRESSURE IN RELIC MODE.

- EXACTLY WHAT GUIDANCE IS THE OPERATOR TO USE
  - NO SI FLOW (?) OR PRESSURES (?) (NON DEGRADED HEADS VS 5% DEGRADED)
  - IN PIGGYBACK OPERATION -
    - SI PUMP HEADS
    - SI PUMP HEADS + RHR PUMP HEAD
    - NONDEGRADED
    - DEGRADED HEADS

HL 4/14

#52 of 5 #69

H. Anderson

Monday 4/14/03

- ⑤ FSRP pg 9.5-5 pg 246 INDICATES ALTERNATE EDG COOLING VIA VALVE IN SERVICE WARE → COOLING TO EACH EDG (CONNECTION FROM FIRE HOSE FROM FP VALVE IN EDG ROOM)

I had requested EWR 440 which ~~was~~ APPARENTLY WAS INDICATED ON LIST TO BE for this application but rather is for ~~the~~ FP valve → SAFW supply.  
PLEASE PROVIDE EWR ???? for FP → EDG COOLING

- ⑥ PLEASE PROVIDE RESULTS OF D/G A & B fuel consumption rates DURING 2000KWe RUNS for last 3 performances of
- PT-12.1 for EDGA  
PT-? for EDGB
- AND EVALUATIONS OF THESE CONSUMPTION RATES TO VALUES USED/ASSUMED IN fuel consumption calculations.

- ⑦ Do the EDG DRY TANK levels in PT-12.1 for EDGA conform with actual readings on sight glass scale & instrumentation? It's appear off in instances.

TH 4/14

Inspection

GINNA SSD IR 2003-002

Request # 70

Requester: Purdale

Date: 4/14/03

Request:

'A' EDG is Appendix R EDG.

Is there an associated higher risk when 'A' EDG is 005 (compared to 'B' EDG)? Are the unavailability goals different for the 2 EDGs?

Licensee Acknowledgment:

TJH

Date:

4/14





: ql  
Ginna SSDI IR 2003-002

Request # 73

Requester: Pindale

Date: 4/14

Request: \_\_\_\_\_

① Provide analysis that shows cooling is  
not req'd for SF PP thrust bearings.  
② What does vendor recommend?

Licensee Acknowledgment: \_\_\_\_\_

Date: \_\_\_\_\_

# Inspection Request

Ginna SSOI IR 2003-002

Request # 74

Requester: H ANDERSON

Date: 4/15/03

Request: \_\_\_\_\_

① CALL OF 306 ROOM VENTILATION WILL MAINTAIN 60°F-104°F  
DURING NORMAL OPERATION

② DURING ACCIDENT CONDITIONS WILL MAINTAIN  
< 125°F ON MAX DEGREE DAY  
< 140°F w/ONLY 1 FAN IN OPERATION

Licensee Acknowledgment: NA

Date: \_\_\_\_\_

**Inspection Request**

Ginna SSDI IR 2003-002

Request # 75

Requester: Pindak

Date: 4-15-03

Request: \_\_\_\_\_

SI values 1815A+B ; 1816A+B.

Are these values in the 1ST Prog?

If not, why (they are operated in GOPs)?

Licensee Acknowledgment: \_\_\_\_\_ A \_\_\_\_\_

Date: \_\_\_\_\_

## Inspection Request

Ginna SSDI IR 2003-002

Request # 76

Requester: Norris

Date: 04/15

Request: \_\_\_\_\_

1) how does PIC-629 (off discharge of A-RHR pump) prevent over-pressurization of SI section piping from the B-RHR pump (MOV-857B)

2) provide external document - 554527

3) justify why path via 1816 A&B is not contained in ES-1.3 as an option if the normal path is unavailable

4) provide modification/engineering package associated w/ EWR-4761

5) what is design pressure of the SI section piping?

6) provide pkg that swapped power supplies for 857 A&B

Licensee Acknowledgment: \_\_\_\_\_

Date: \_\_\_\_\_

# Inspection Request

Ginna SSDI IR 2003-002

Request # 78

Requester: Pindale

Date: 4-15

Request: \_\_\_\_\_

Follow-up to RQ # 64.

① Are these PM recommendations ones that were previously missed, or are they new PM req's?

② If missed, is there an AIR + applicability review for other systems?

Licensee Acknowledgment: \_\_\_\_\_

Date: \_\_\_\_\_



# Inspection Request

Ginna SSDI IR 2003-002

Request # 80

Requester: LC/HSA

Date: &

Request: \_\_\_\_\_

PLEASE PROVIDE THE OPER. EVAL<sup>PERFORMED</sup> WHEN WATER IN EDB  
VAULT WAS ORIGINALLY EVALUATED IN REGARDS TO CABLES

PLEASE PROVIDE <sup>DESIGN</sup> REQUIREMENTS RELATED TO EDB VAULT  
SEPARATION BETWEEN A & B CABLES (SOUTH WALL) - FIRE  
BARRIER COMPARTMENT

Licensee Acknowledgment: \_\_\_\_\_

Date: \_\_\_\_\_