

From: <DSTRAKA@apsc.com> Don Straka
 To: <atg@nrc.gov> Anthony Cealy
 Date: 6/29/04 2:20PM
 Subject: AIT2004.xls

Revised asd 6/29/2004 @ 1215 hours

Action #	NRC Requester	PV Respondent	Request	Closed
1	Gody Straka	Phone list of Entrance Attendance roster	6/15/2004	CLOSED
2	Gody Oakes	Provide Copies of documents requested by N. Salgado Raw Data	Copies provided 6/15/2004 @ 3:30 PM by Vogt	6/15/2004
3	Gody STA- D. Fan	Trip time lines for all three units(Taylor) and offsite activities (Mueller)	Drafts Provided	6/15/2004
4	Gody Taylor	Names of crews on shift in all three Units and their availability for being interviewed	All crew members are available until Thursday	6/15/2004
5	Gody Leake	Copy of the Electric ISO both hard copy and electronic	Closed to #12	6/15/2004
6	Gody Crozier	Timeline for e-plan activities	Provided	6/15/2004
7	Gody Straka	90DP-0IP06 - provide copy	6/15/2004	6/15/2004
8	Gody & Team	Leake	Preliminary briefing of Offsite failure	6/15/2004
9	Skinner	Paramithas	Digital pictures of the failed bell string insulator string, especially any failure areas. If potential sabotage is suspected (or is obvious) such as a gun shot, have the proper authorities been conducted?	6/15/2004
10	Skinner	Paramithas	Digital pictures of the failed AR relay, especially any failure areas (the open contacts, etc.). Any apparent cause and past maintenance, etc.	6/15/2004
11	Skinner	Paramithas	Traces showing time steps of failures	6/15/2004
12	Gody Leake	Copies of switch yard and connecting systems schematics- Electronic Copies Provided	6/15/2004	6/15/2004
13	Skinner	Paramithas	3 line diagram for switchyard and Need Hassayampa liberty line/WestWing provided -6/16/2004 & Dwg G 33417 sheet 2	6/15/2004

C/27

14 Skinner Paramithas Breaker Schematic
Hassayampa/Liberty/Westwing Typical is OK Package Provided
6/15/2004 CLOSED

15 Skinner Paramithas Breaker Schematic Switchyard
Typical is OK Need Electronic Copy copies provided - 6/16/2004
Electronic Copy Provided 6/15/2004 CLOSED

16 Skinner Paramithas Graph(s) of the current flowing
through each of the main lines and (hopefully, if available) each phase.
West Wing, etc. In other words current vs. time info for the lines out
of Palo Verde. Not Needed 6/15/2004 CLOSED

17 Skinner Paramithas The time of the Bay 7 mod
implementation. provided e-mail 6/15/2004 CLOSED

18 Skinner Paramithas How many lines and distribution
of estimated fault current feeds on Westwing Not Needed
6/15/2004 CLOSED

19 Gody Paramithas Ownership, interface, and maintenance
agreements on PVNGS Switch Yard Not Needed 6/15/2004 CLOSED

20 Skinner Leake Any 50.59s on the lines & isophase
negative sequence modification Eval 00-00097 Modify Breaker Switches
provided 6/15/2004 CLOSED

21 Koshy Kesler NRC meeting with APS Electric System Load
Dispatcher Follow Up Meeting 6/18/2004 Meeting Held 6/18/2004
6/15/2004 CLOSED

22 Gody Taylor Apparent cause for Unit 2 DG "A" see #38
6/15/2004 CLOSED

23 Gody Taylor List of quarantined equipment Unit 1 ADV-185
Unit 2 "E" Charging Pump (Released) Diesel "A"
Unit 3 Steam Bypass Control Valve 1003 Steam Bypass Control System
Cabinet
6/15/2004 CLOSED

24 Gody Winsor Product justifying U1 startup with the
initiating offsite electrical power lost apparent cause NRC phone calls
and data provided 6/15/2004 CLOSED

25 Skinner Straka Electronic copy of Time Line Still
need final copy see #60 6/15/2004 CLOSED

26 Skinner Cooper Main Generator 3 line meter and
relaying drawing Schematics for trips/alarms 2 copies provided &
Electronics 6/15/2004 CLOSED

27 Paulk Vogt Sequence of Events for unit trip does not go
far enough back. Backup time line for grid issues. Negative Phase
sequences sensed in house as a starting point Provided
6/15/2004 CLOSED

28 Skinner Leake Output from digital fault recorder for
switch yard See RFI 11. This could be the same. Provided
6/15/2004 CLOSED

29 Gody Kidd Copies of all CRDRs written since & just before
the trip. Copies provided to AIT 6/16/2004 6/15/2004
CLOSED

30 Alter Lee Copy of E-Plan table 1 for time to activate

ERO. Include who is required to activate. Lee Provided
 6/15/2004 CLOSED

31 Alter Lee TSC Diesel operating procedure and PM task with
 last 2 PM's documentation. Lee Provided 6/15/2004 CLOSED

32 Alter Leavitt Security Diesel operating procedure and
 PM task with last 2 PM's documentation. (Larry Leavitt) Item
 complete, PM not required due to successful test run of DG
 6/15/2004 CLOSED

33 Alter Leavitt Security Plan for description of
 Security Diesel and drawing. Leavitt Documents provided, discussions
 held to close questions -6/16/2004 6/15/2004 CLOSED

34 Alter Leavitt Security procedure for LOP. Leavitt
 Procedure provided and discussion held to cover questions - 6/16/2004.
 6/15/2004 CLOSED

35 McConnell Straka Copies of 13-EMAA 001 Copies provided
 6/16/2004 6/16/2004 CLOSED

36 Alter Leavitt/Lee Walkdown Diesels Security & TSC
 Walkdown 6/16/2004 AM 6/15/2004 CLOSED

37 Gody Straka e-mail Status Report - WAPA Liberty/Westwing
 and SRP Agua Fria/Westwing 230KV lines Copy provided 6/16/2004
 6/16/2004 CLOSED

38 Paulk Holmes Briefing on U2 DGA trouble shooting. Was
 components recently replaced. Previous failures. Meeting with
 Holmes/Payne. Failed diode. First time @ PVNGS. OE 1 1996 @ Grand Gulf.
 Question on whether EWA pump that was sequenced on @ failure time was
 cause. Jim Moreland stated pump was sequenced on about 3 hours after
 plant trips and operated satisfactorily. 6/16/2004 CLOSED

39 Paulk Bolf Meeting to discuss CH pump E U2 failure.
 Scheduled @ 12:30 See new questions # 49 6/16/2004 CLOSED

40 McConnell Banks Numerous questions on U1 & 3 trip data.
 Questions answered during several interviews 6/16/2004 CLOSED

41 Paulk Oakes Numerous questions on U2 trip data. Include
 pressure plots for primary and secondary to determine if safeties
 lifted. Information provided. New RFIs for additional information was
 opened 6/16/2004 CLOSED

42 Skinner Leake Walk through 3 line diagrams provided
 in item 26 above. This will satisfy both Skinner and Negative
 Sequencing crkt/trip function questions from McConnell Meeting Holmes
 6/17/2004 6/16/2004 CLOSED

43 Skinner Leake - Kessler Interconnection
 agreements &/or Letters of Understanding for managing electric loads in
 the PV area References 15 & 16 from 50.59 E00-00097 2 Copies
 provided. 6/16/2004 CLOSED

44 Skinner Straka - Gregoire Provide any pending
 changes to the UFSAR chapter 8 Provided copy 6/16/2004 CLOSED

45 McConnell Vogt Scan frequency for PC alarm
 typer-printer Provided 6/16/2004 CLOSED

46 McConnell Vogt Provide Primary Pressure Plots for all
 3 units Provided 6/16/2004 CLOSED

47 McConnell Leake See Item 42 above regarding negative
 sequencing Meeting Holmes 6/17/2004 6/16/2004 CLOSED

48 Paulk Straka Unit logs 0700-1000 hrs 6/14/2004 copies
 of all three units provided -6/15/2004 6/16/2004 CLOSED

49 Paulk Bolf Effects of LOOP on CH Pump cooling system, Time
 pump was run with suction isolated, How long can pump run without
 suction, & performance testing performed to ensure pump is operable.
 Four question response provided by B. Bolf. 6/16/2004 CLOSED

50 Alter Crozier 1/2 hour delay @ security headquarters
 during event. Delayed NRC and Operator response? Issue discussed
 6/16/2004 CLOSED

51 Gody Withers Did all three unit generators trip on
 negative sequence signals? Design of system and role in plant trips.
 Meeting Holmes 6/17/2004 6/16/2004 CLOSED

52 Skinner Paramithas 40DP-9OP34 Switchyard
 Administrative Control Copy provided 6/16/2004 CLOSED

53 McConnell Henry LOOP EOP & Gas Turbine emergency
 operation Copy provided 6/17/2004 CLOSED

54 Paulk Bolf Operation of Charging pump cooling and suction
 line up during this type of event Meetings with STA, Bolf &
 Radspinner 6/16/2004 CLOSED

55 Paulk Grigsby Why was the CH Pump E U2 removed from
 quarantine list without an operability test or ST? Meetings with
 STA, Bolf & Radspinner 6/17/2004 CLOSED

56 Paulk Samuels/Gouvier DG Sequencer loading discussion
 and DG loading calcs Meeting held 12:30 6/17 6/17/2004
 CLOSED

57 Paulk Payne DG A U2 total run time 2325 hours
 6/17/2004 CLOSED

58 McConnell Bolf Letdown fumes U1, fire? Source of fumes
 Post walkdown package provided See new 83 & 74 6/17/2004 CLOSED

59 McConnell Smyers Game Plan and any results for U1 ADV
 185 Game plan provided. Results and apparent cause needed.
 Residents 6/17/2004 OPEN

60 Skinner Paramithas Updated time line for off site
 events electronic Word Copy Due Monday or Tuesday AIT Team update
 electronic timeline provided 6/17/2004 CLOSED

61 McConnell Vogt Current bus voltages for all three
 units values provided 6/17/2004 CLOSED

62 Paulk Grigsby CRDR initiated on log entry on
 evaluation for not securing RCPs on low amps 6/15/2004 4:00 am CRDR
 2716562 provided 6/17/2004 CLOSED

63 Gody Taylor Complete Post Trip data packages for all three

units. Due Monday or Tuesday AIT Team - Copies of all three units sent 6/23/2004 by e-mail Straka to Gody 6/17/2004 CLOSED

64 Paulk Vogt Time line of specified equipment in U2 copies provided 6/17/2004 CLOSED

65 McConnell Vogt Time line of specified equipment in U1 & 3 Information provided 6/17/2004 CLOSED

66 McConnell Shanker LOCV Chapter 15 event numbers vs. U1 & U3 actuals Copies provided. 6/17/2004 CLOSED

67 Paulk Straka What recording systems do we use for Post Trip Data Data Provided 6/17/2004 CLOSED

68 Paulk Grigsby Why didn't OPS follow 40EP-9EO07 when lining up U2 CH pumps Per Jim Taylor this will be evaluated under CRDR 2716521 6/17/2004 CLOSED

69 Paulk Gaffney 10 minutes hold up of AO on CH pump U2 recovery. Why? CRDR 2716521 Tim Heir RP CRDR 2716806 provided 6/17/2004 CLOSED

70 Koshy Kesler Meeting on operations interface with APS SRP Transmission meetings held on 6/17/ and 6/18 6/17/2004 CLOSED

71 McConnell Coppock Basis of GT starting for switch yard batteries, dwgs, Information Provided 6/17/2004 CLOSED

72 Gody Kidd CRDRs for Wednesday, Thursday, and Friday CRDRs provided 6/17/2004 CLOSED

73 McConnell Bolf Letdown line isolation failure 201 P/Q Radspinner held meeting with McConnell on 6/17/2004 Need evaluation of softparts subjected to high temperatures. Residents e-mail sent to N Salgado and Tony Gody 6/17/2004 CLOSED

74 Alter Crozier Potential for Fire response team to be held up during LOOPS in sally port Meeting held 6/18/2004 with L. Leavitt 6/17/2004 CLOSED

75 McConnell Radspinner Potential for RCP Thermal Trip for lift pump motor Custudio held meeting Thermal Curve provided 6/17/2004 CLOSED

76 McConnell Clifton LPSI check valve V217 failure Meeting Held 6/17/2004 6/17/2004 CLOSED

77 McConnell Holmes Magna Blast Breakers S05D/S06K Apparent cause of failure Schroeder Residents 6/17/2004 OPEN

78 McConnell Coppock U3 SBCV 1003 & Cabinet failure Apparent Cause Coppock briefed McConnell On 6/17/2004. Residents. 6/17/2004 CLOSED

79 Alter Crozier interviews results for security access team Meeting on 6/17/2004 6/17/2004 CLOSED

80 Alter Crozier System description of TSC diesel Meeting on 6/17/2004 6/17/2004 CLOSED

81 Alter Crozier Unit 2 Emergency coordinator procedures used on 6/14/2004 - need copy Meeting on 6/17/2004 6/17/2004 CLOSED

82 Alter Crozier Copy of Instructions for SallyPort
vehicle arm operations both old and New Meeting on 6/17/2004
6/17/2004 CLOSED

83 Alter Crozier Response report on Smoke seen on the
134 foot valve gallery Scott Dodd to provide See 74 also.
Information provided. 6/17/2004 CLOSED

84 Alter Crozier Copy of the revised Auto Dialer
procedure Meeting on 6/17/2004 6/17/2004 CLOSED

85 Skinner Cooper copies of one line diagrams of D11 &
D12 back to power source and what are power sources to D11 & D12 and
panel drawings for D11 & D12 Copies Provided by Cooper
6/17/2004 CLOSED

86 Paulk Oakes Unit 2 PMS typer printout 0730 to 0930
4/14/2004 Documents provided, discussions held to close questions
- 6/18/2004 6/18/2004 CLOSED

87 Paulk Oakes ERFDADS Unit 2 neg Sequencer Provided
6/18/2004 CLOSED

88 Paulk Oakes U2 VCT Level Provided 6/18/2004
CLOSED

89 Paulk Coxon Did AO performing CH Pump U2 alternate suction
actions have pages 1&2 of Appendix 10 See #68 Yes, # 68 covers
procedure issue 6/18/2004 CLOSED

90 Paulk Oakes MAYS14 ERFDADS Reports Copy provided
6/18/2004 CLOSED

91 Gody Brutcher Effect of overflow condition of RCPs on
core components Residents - Copy of Westinghouse letter dated
6/18/2004 "PV04-107" provided to N. Salgado via e-mail
6/18/2004 CLOSED

92 Paulk Glover U3 Turbine overspeed Trip: Set points Mech &
Electrical overspeed trips, last time overspeed ST performed (E&M),
Testing time intervals, Copy of ST Meeting held 6/18/2004
6/18/2004 CLOSED

93 Paulk Schroeder Effect and evaluation of components
that were connected & subjected to 67 Hz and plan to evaluate the
equipment AIT Team 6/18/2004 OPEN

94 Paulk Vogt Did we have a DNBR trip on Unit 3 versus VOPT
Meeting held Flodin/Vogt/Coppock Had VOPT trip 6/18/2004 CLOSED

95 Paulk Schroeder/ Flodin Data that determined 67 hz &
the 100 RPM RCP speed over nominal DFR data for Frequency plot
provided CPC Buffer Data for Unit 3 provided for RCP speed
6/18/2004 CLOSED

96 McConnell Vogt Magna blast breakers failed to shut
from the control room. How many attempts were made to close S06K 5
attempts to cycle remotely S05D 3 attempts to cycle remotely
6/18/2004 CLOSED

97 McConnell Holmes Magna blast breakers- Last maintenance
performed See Engineering White Paper Rev. 1 6/18/2004
CLOSED

98 McConnell Smyers 5 A/B RK panels in unit 2 were all

lite. Apparent cause trouble shooting results Maner & Reynolds
Unregulated power supply caused spiking. Readjust the power supply and
possibly do a permanent mod. 6/18/2004 CLOSED

99 McConnell Flodin Graph of Plant Power vs RCP RPM
Copy provided 6/18/2004 CLOSED

100 Koshy Kesler

Could also provide me the frequency and voltage plot of the 500 KV
system at the palo verde switchyard. (you gave me hard copy) Please give
me an electronic version.

AIT TEAM Electronic version sent via e-mail from Kesler on
6/22/2004 6/22/2004 CLOSED

101 McConnell Clifton Provide CRDR 2715768 Copy
provided 6/23/2004 6/23/2004 CLOSED

102 McConnell Clifton Provide Alarm Response
procedure 40AL-9RK2B Copy provided 6/23/2004 6/23/2004
CLOSED

103 Gody Straka Provide copies of the Standard Post Trip
reports for all three Units Copies e-mailed to Gody on 6/23/2004

6/22/2004 CLOSED

104 Gody Straka Teleconference for 6/24/2004 topics, Unit 3 SOE
up to VOPT Trip and Borg Warner SI check valve seating quesitons
Conference set for 0830 on 6/24/2004 Call completed- additional action
RRI to follow 6/23/2004 CLOSED

105 Gody Straka Determine if 7/13/2004 is an acceptable date to
hold Public Exit of AIT, location TBD APS finds 7/13/2004 acceptable
6/24/2004 CLOSED

106 Gody Straka Need copy of unit trips timelines - e-mail to
Tony Gody Sent via e-mail 6/24/2004 6/24/2004 CLOSED

107 Gody Straka Provide latest version of RFI List to
AIT Team, conduct call to re-zero list of action items called AIT -
Gody on 6/28/2004 left voice mail Review @1230 6/29/2004 suggested
Meeting set-Management to attend as welll 6/24/2004 CLOSED

108 Gody Straka Set up teleconference call with Gary Andrews
and Dan Holland to discuss Steam Bypass response in Unit 3 - would like
call to be held 6/24/2004 Call held on 6/24/2004 at 8:30

6/24/2004 CLOSED

109 McConnell Hypse FSAR 10.2.2.3.1.4 Power/Load Unbalance.
Associated with the load control unit is a rate sensitive power/load
unbalance circuit whose purpose is to initiate control valve fast
closing action under load rejection conditions that might lead to rapid
rotor acceleration and consequent over speed.

I am curious to find out if a power/load unbalance signal occurred, and
if the system reacted as expected per the FSAR. 6/24/2004

OPEN

110 Paulk Hypse 1. In the original (initial) plant
configuration what were the power sources for Steam Bypass Control for
the preferred (non-vital) power to alternate, and was the alternate

power source vital (class) or another non-vital bus?

2. Under the Plant mod, the SBCS was changed from ABTs to static switches, were the power sources for the preferred and the alternate changed as well?

3. Are all three Units SBCS configurations the same, provide dates when the SBCS ABTs/static switches were installed in all three units?

E-mail sent 6/25/2004. The NORMAL power source at NNND11 (D12) has always been from NHHM13 (M10) and the EMERGENCY from PHAM31 (M32). At one time there was confusion as to which source was more reliable and the units were aligning the panels differently. Some units had the ABT aligned to the Emergency source while others were aligned to the Normal. After the "Ring-Tailed cat" event in Unit 1 we decided to replace the switches and to align them to the Normal source since PVNGS had experienced several loss of off-site power events to either S05 or S06.

2. The sources remained the same but the alignment changed. The Normal source was now the preferred source and the Emergency was the back-up. This change came out of the ring-tailed cat event in Unit 1.

3. All the NNND11 and D12 switches have been replaced under DMWO 740601.

1ENND11 DIWO 740602 03/98

1ENND12 DIWO 740603 03/98

2ENND11 DIWO 740604 09/97

2ENND12 DIWO 740605 09/97

3ENND11 DIWO 740606 03/97

3ENND12 DIWO 740607 03/97

6/24/2004 CLOSED

111 Skinner Straka e-mail GEORGESG@cs.COM system

description of main generator protective relaying scheme e-mail

George a copy of the STM on 6/24/2004 -waiting to see if this meets his

needs 6/24/2004 OPEN

112 McConnell Straka - Powlikowski (1) it became apparent that the lift oil pumps were replaced with a different model than the original manufacturer.

Can you have someone track down the date of the modification?

(2) are the lub oil lift pumps to be running to enable the starting of the RCP?

more clearly: is the lube oil lift pump an enabling system for the RCP start circuit?

e-mail sent reference FSAR section 5.4.1.3 and included elementary diagram 02-E-RCB-001 date sent is 6/25/2004 6/25/2004

CLOSED

113 Koshy Kesler (1) What I requested was the voltage during the event. Could you get me that?

Frequency and the voltage?

(2) Second subject:

Any progress on APS decision to install Zone 2 or ground fault

protection between 230 and 500kv at West Wing ?

E-mail sent 6/25/2004 6/25/2004 CLOSED

114 McConnell Bolf requesting information with regards to the Unit 2 letdown line. Mark Brutcher, Doug Berg and myself conducted a conference call with Mr. McConnell to discuss the stress analysis allowables and the max stress that was identified during the analysis for the increased letdown temperature. Mr. McConnell requested, and has been faxed a copy of the current CRDR (#2715667), the applicable pages of the stress calculation, and the ISI inspection reports for the subsequent inspection of the purification filter cask.

Mark Brutcher, Doug Berg and myself conducted a conference call with Mr. McConnell to discuss the stress analysis allowables and the max stress that was identified during the analysis for the increased letdown temperature. Mr. McConnell requested, and has been faxed a copy of the current CRDR (#2715667), the applicable pages of the stress calculation, and the ISI inspection reports for the subsequent inspection of the purification filter cask.

Date 6/23/2004 6/23/2004 CLOSED

115 Paulk Payne DG run time/diode clarification e-mail forwarded to Gody on 6/25/2004 6/24/2004 CLOSED

116 McConnell Holmes Do PVNGS strip loads on the PK bus to meet/extend capacity of the batteries?

No, PVNGS do not strip loads on the PK bus to meet/extend capacity. The batteries are sized to adequately perform the load profile (2 hour) of the worst case scenario for the batteries, provided answer

6/25/2004 6/25/2004 CLOSED

117 McConnell Holmes - Samuels Procedure 40EP-9EO10, Appendix 52, page 3 of 23, states "The GTGs can not supply Units 2 and 3 simultaneously but can supply Units 1 and 2 or Units 1 and 3." Tim requested clarification of this statement.

After researching various documents and then talking to John Holmes I was prepared to give my answer to Dave Loveless, however, I was unable to contact him. I left him a voicemail with my name and phone number and that I will contact him on Tuesday(6/29/2004) with the answer to this question.

6/25/2004 OPEN

118 Paulk Hypse They asked why chapter 15 of the UFSAR stated that the SBCS is unavailable after a loss of offsite power. This does not appear to be the case in Unit 3?

6/25/2004 OPEN

- 119
- 120
- 121
- 122
- 123
- 124
- 125
- 126
- 127
- 128

129
130
131
132
133
134
135
136
137
138
139
140