

Bird take off Tower 73 on Liberty
230KV line 47 miles from plant - a large
fire ball → Bird went straight
across insulator → phase C to
ground → fault detection sensed →
out of 3 breakers

Out of 2 at ^{westwing} ~~westing~~ Breakers opened.
because ^{not all} A.R. relay contacts made up to
warn trip bar.

A number of other 230KV lines in service
operational. But 500KV/230KV, had
no overcurrent protection & any
other fault protection.

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 2
FOIA-2004-0307

No trip redundancy - has been connected to
one other line that had to be fixed. H/B

Some 230KV substation cross-ties had only a single trip coil. Going to add additional trip coil. Looking at future design change.

Large reactive and real load in PMS surge

Large reactive power being transferred to Westinghouse PMS surge at Hassayama

First 12 seconds up to 25KV drop in PMS

But Hassayama needs a negative sequence trip. (essentially 3-phase trip) involving

Cause 3 Hassayama lines surge

Voltage \downarrow to 370KV

230KV 500KV relay started timing \rightarrow all other lines trip @ 25 seconds \rightarrow fault cleared @ 38 seconds \rightarrow 52KV

\downarrow
LOOP

\rightarrow 500KV started
U2 500KV started but after a while faulted \rightarrow
no out out \rightarrow ALARM

U1 & U2 - Lapped on DMBR
U3 - Variable overpower

All 3 units on Natural Circ.

Fault current wasn't enough for overcurrent
trip in PMS Dwyer.

Removed negative sequence trips for Haseyama

Issues

Ex2 11

1

2

1) 13th CIE Marine Bldgs - 2 wouldn't close \rightarrow
Power from SUT - Resident followup

2) U3 Bypass Valve / Central Cabinet Malfunction
- Resident followup

- ⑥ LPST (Beginner) (Check valve in linkage — Resident Followup.
- ⑦ U3BCP 67 Hz
— core level sig analysis — DKS review
bounded by analysis
- ⑧ EOP procedure limit for RCP ops — need
to be change
- ⑨ LDK drive excites failure — random, isolated
will post — ~~not~~ return on deck — no other
further action.
- ⑩ E Charging pump trip. — presumed error — AT
- ⑪ ^{UI} ADV failure — potential failed →
Resident followup
- ⑫ Emergency Response
 - 12A — full delayed by operator for 10 minutes
 - 12B — Recoded initial PAB specifies detection
~~could cause~~ delay of RCB system
 - 12C — shutdown failed to isolate — overheated
pump → part fires → it re-ignite

Ex. 2

(12d) Test switch out of position due to
maintenance over.

1

(13) UI didn't note notification in 15 minutes
PI hit.

AIT Followup Insp

- U2 EDG A - diode failure in exciter rectifier circuit
- U2 CCP E - operator error
- U3 Stem bypass control valve
- 13.8KV breakers : GE Magne Blast : Circumventing?
emergency response facility and security interlock issues
- U3 LPSI Borg-Warner Check Valve leakage
- TSC EDG failure - test switch out of position
- U3 RCP overspeed - core barrel lift analysis.
- U3 RCP Lube Oil Lift Pump Breather Thermal Overload
trip

What is negative sequence current