

PRINT/ABORT EVENT RECALL LOG (OD-40)

A. PURPOSE

The purpose of this procedure is to detail the necessary steps to request or abort the output of the Event Recall (Post Trip) Log. This log is intended as an analysis tool for use in determining the values of selected input points immediately prior to a reactor scram or other major plant trip event. The log contains 60 preselected Nuclear Steam Supply System and Balance of Plant process computer analog input points, which are scanned continuously at one-minute intervals. See DOP 9900-T11, (Reference 1), for a complete list of process computer inputs included in this log.

The scanned values are stored in computer memory for a period of five minutes and then discarded. Upon occurrence of a plant trip, the stored data for the preceding five minutes is transferred to a special write area of bulk memory and held there for ten minutes (see the attached Figure 1 for a complete list of digital inputs which will initiate the automatic output of this log). During this period, the Operator may abort the log output via OD-40, Option "2", and then manually initiate an immediate output of the log via OD-40, Option "1". If no action is taken by the Operator during the ten minutes for which the data is held, the log will automatically be output on the Unit 2(3) Output Typer [942(3)-05]. A plant trip-initiated log cannot be aborted once the output has begun (see the attached Figure 2 for a typical event recall log edit).

As long as one or more of the 14 digital input(s) which initiate the automatic output of this log remain tripped, a request via option "1" of this program provides the five minutes of information prior to the scram or trip. However, once all these input(s) are reset, the pre-trip information is lost and after a five minute compilation time, only the most recent five minutes of data is available.

B. REFERENCES

1. DOP 9900-T11, Event Recall Log.
2. GEK Manual 27732A, Vol. 1, page 2-102.
3. DOP 9900-T3, Request CRT's Authorized to Initiate OD-Programs.

C. PREREQUISITES

Ensure that power is ON to the Request Cathode Ray Tube (CRT) being used to initiate the program. If power is interrupted for any reason, the Request CRT power switch may have to be turned ON or the screen reset pushbutton depressed.

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D. PRECAUTIONS

None.

E. LIMITATIONS AND ACTIONS

1. This OD-program is available from all the Request CRT's.
2. Consult table DOP 9900-T3 (see Reference 3) for a complete tabulation of Request CRT's from which this program may be initiated.

F. PROCEDURE

1. Initiation procedure.

a. Type "S" to select the short menu or type "F" to select the full page menu. If a full page menu is selected, it may be necessary to type "N" to access additional full page menu displays in order to obtain program number "40".

b. Type "40" and PRESS the return key.

c. Type in the number corresponding to the desired event recall log option and PRESS the return key. Valid numbers are as follows:

"1" - This option initiates printing of the Event Recall Log.

"2" - This option allows for the aborting of the Event Recall Log prior to its automatic output following a trip. This is only allowed during the ten minute period immediately following the initiating scram or unit trip.

2. Program output.

Program output initiated from the Request CRT will automatically be routed to the appropriate local output typer and/or output CRT in the format corresponding to the chosen option.

a. Option "1":

(See Figure 2 for an example of a typical event recall log edit).

- (1) If the edit contains information for the five minutes immediately preceding a scram or unit trip, the title line of the log will be as follows:

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DNPS # EVENT RECALL LOG - TRIPPED AT MM-DD-YY HH:MM:SS

(where MM-DD-YY and HH:MM:SS are the trip date and time).

- (2) If the edit is for the preceding five minutes of current data from normal plant operation, the title line will be as follows:

DNPS # EVENT RECALL LOG - DEMAND AT MM-DD-YY HH:MM:SS

(where MM-DD-YY and HH:MM:SS are the date and time at which the log is requested).

b. Option "2":

TIME
HH:MM:SS OD40 OPERATOR ABORTED AUTO TRIP LOG

G. ILLEGAL REQUESTS

1. If a value other than a "1" or "2" is entered for the event recall option, the message "INVALID OPTION, PLEASE RE-ENTER" will appear on the Request CRT screen.
2. If an attempt is made to initiate option "1" within ten minutes following a scram or trip, the following message will be output:

TIME
HH:MM:SS OD40 TRIP IN PROGRESS. WAIT FOR TRIP LOG TO PRINT OR ABORT AUTO TRIP LOG

3. If an attempt is made to initiate option "1" within five minutes after the resetting of the digital input(s) which caused automatic output of the Event Recall Log, the following message will be output:

TIME
HH:MM:SS OD40 DATA ACCUMULATION NOT COMPLETE. WAIT 5 MINUTES AND RE-REQUEST

4. If an attempt is made to initiate option "2" at any time other than the ten minutes immediately following a scram or unit trip, the following message is output:

TIME
HH:MM:SS OD40 ABORT INVALID AT THIS TIME

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H. CHECKLISTS

None.

I. TECHNICAL SPECIFICATIONS REFERENCES

None.

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EVENT RECALL LOG INITIATING EVENTS

FIGURE 1

The program which produces this log is automatically initiated by a change in any one of the following sequence of events inputs:

- T076 (T176) - Reactor scram
- T058 (T158) - Generator trip
- T061 (T161) - Turbine tripped low bearing oil pressure
- T049 (T149) - Turbine tripped thrust bearing failure
- T005 (T105) - Turbine tripped low vacuum
- T052 (T152) - Turbine EHC trip remote device
- T062 (T162) - Turbine tripped exhaust hood high temperature
- T051 (T151) - Turbine tripped EHC fluid low pressure
- T055 (T155) - Turbine tripped stator coolant failure
- T056 (T156) - Turbine tripped EHC system master push-button
- T054 (T154) - Turbine tripped EHC system speed feedback
- T057 (T157) - Turbine tripped overspeed
- T050 (T150) - Turbine tripped trip system oil low pressure
- T053 (T153) - Turbine tripped overspeed backup

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EVENT RECALL LOG

DOP 990 40

Revision 1

FIGURE 2

DNPS 3- EVENT RECALL LOG - TRIP AT 08-24-83 14:02:00

TIME	B364	B365	B366	B367	B368	B369	B300	B301	B330	B328	B329	B302	B303	T300	T330
13:57:00	-31.2	-31.2	-31.2	-31.2	-31.2	-31.2	0.0	292	2	686	-697	-142	-797	70	25
13:58:00	-31.2	-31.2	-31.2	-31.2	-31.2	-31.2	0.0	294	2	686	-697	-142	-797	70	25
13:59:00	-31.2	-31.2	-31.2	-31.2	-31.2	-31.2	0.0	294	2	687	-697	-142	-797	70	25
14:00:00	-31.2	-31.2	-31.2	-31.2	-31.2	-31.2	0.0	297	2	687	-697	-142	-797	70	25
14:01:00	-31.2	-31.2	-31.2	-31.2	-31.2	-31.2	0.0	297	2	687	-697	-142	-797	70	25

TIME	B304	B309	B300	B301	B303	B302	F379	F380	F322	F323	F324	C322	T300	T301	T314
13:57:00	-24	-15.0	-18	-6.3	-10.89	-31.2	260	260	0.00	0.00	0.00	-2.4	-371	-404	-1631
13:58:00	-24	-15.0	-18	-6.3	-10.89	-31.2	260	260	0.00	0.00	0.00	-2.4	-371	-404	-1631
13:59:00	-24	-15.0	-18	-6.3	-10.89	-31.2	260	260	0.00	0.00	0.00	-2.4	-371	-404	-1631
14:00:00	-24	-15.0	-18	-6.2	-10.89	-31.2	260	260	0.00	0.00	0.00	-2.4	-371	-404	-1631
14:01:00	-24	-15.0	-18	-6.2	-10.89	-31.2	260	260	0.00	0.00	0.00	-2.4	-370	-404	-1631

TIME	T315	T306	T316	T317	T302	T303	F310	F319	F320	F393	T320	T321	T322	T323	T341
13:57:00	-1631	172	-1631	-1631	-99	15	-0.9	-1.0	-0.8	-634.56	-1631	-1631	-1631	-1631	-1631
13:58:00	-1631	173	-1631	-1631	-99	15	-0.9	-1.0	-0.8	-634.56	-1631	-1631	-1631	-1631	-1631
13:59:00	-1631	173	-1631	-1631	-99	15	-0.9	-1.0	-0.8	-634.56	-1631	-1631	-1631	-1631	-1631
14:00:00	-1631	173	-1631	-1631	-99	15	-0.9	-1.0	-0.8	-634.56	-1631	-1631	-1631	-1631	-1631
14:01:00	-1631	173	-1631	-1631	-99	15	-0.9	-1.0	-0.8	-634.56	-1631	-1631	-1631	-1631	-1631

TIME	T312	T313	T308	T346	T304	T336	T337	T338	T339	T340	T341	T342	T343	T344	T345
13:57:00	-1631	-1089	-2	-126	-24	6	44	-0	-4	-3	0	3	2	-0	-2
13:58:00	-1631	-1089	-2	-126	-24	6	44	-0	-4	-3	0	3	2	-0	-2
13:59:00	-1631	-1089	-2	-125	-24	6	44	-0	-4	-3	0	3	2	-0	-2
14:00:00	-1631	-1089	-2	-125	-24	6	44	-0	-4	-3	0	3	2	-0	-2
14:01:00	-1631	-1089	-2	-125	-24	6	44	-0	-4	-3	0	3	2	-0	-2

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