

SEQUENCE OF EVENTS
INDIAN POINT NUCLEAR STATION
UNIT 2
FEBRUARY 15, 2000
EMERGENCY - ALERT

February 15, 2000

1900 Reactor Power 99%
Gross Electrical Load 1003 MWe
1915 #24 Steam generator leak rate 3.4 gallon/day
1915 Radiation alarm in main steam line
1917 Pressurizer level starts to decrease and
charging pump flow began to increase
1918 Radiation alarm in steam jet air ejector flow path
1919 Second charging pump started
1922 Steam generator blow down showed upward trend in
radiation reading
1929 Reactor coolant system inventory loss greater than
capacity of two charging pumps
1929 Reactor manually tripped
1929 Declared ALERT, Emergency Action Level 3.1.2
1930 Main generator trip
1931 Sounded emergency alarm
1932 On-site announcement of emergency and to report to
assembly areas
1933 Con Ed Central Information Group notified
1939 Central control room notified security
1940 Central Information Group called back to verify call
1941 Initial RECS notification to NYS and local counties
1952 Notified Indian Point 3
2000 Majority of Emergency Response Organization pagers
sounded
-2000 State of New York rep called EOF for information;
placed on hold for 45 minutes
-2000 Security closed and guarded main gate
-2000 Joint News Center responders did not have keys to
open up
2005 Notified NRC Resident Inspector
2008 Notified NRC via ENS
2012 Auxiliary Feedwater flow reestablished to #24 Steam
Generator
2018 Continued uncontrolled increase in level in #24
Steam Generator
2018 Initiated isolation of #24 Steam Generator
2028 Auxiliary Feedwater flow secured and # 24 Steam
Generator isolated
2029 Rough leak rate determination at about 90 GPM
2029 Directed to add 700 gal boron
2029 Power Operated Relief Valve lifted at 1020 psig -
reset at approx. 1008 psig - open 23 minutes.
2031 Main Steam Valve for #24 Steam Generator closed
2045 Accountability reported to control room as complete
2103 Reactor coolant system temperature 530 deg. F.,

pressure 2000 psi.
2104 Inserted manual safety injection to compensate for
rapid pressurizer level drop
2108 Commenced rapid cooldown and depressurization to
minimize inventory loss of primary coolant
2108 Safety injection automatically initiated
2113 #24 Atmospheric dump valve reset at 1008 psig
2115 Plant re-pressurized above 1500 psi and safety
injection flow stopped
2115 Emergency Operations Facility activated
2147 Second accountability complete - four missing
persons
2202 First News Release - Any radioactive releases would
be a small fraction of the EPA Protective Action
Guidelines
2217 Accounted for four missing persons
2219 Emergency Response Data System failed
2252 Plant Stabilized - Entered "Post Steam Generator
Tube Rupture Recovery - Backfill" procedure
2255 Field teams all reading background levels
2310 No radiation readings by field teams

February 16, 2000

0500 Reactor coolant system at 353 deg. F. and pressure
535 psig
0720 Condenser vacuum pump tripped
0852 Restarted vacuum pump
0912 Obtained Westinghouse approval for emergency
procedure change for putting residual heat removal
system in service
0936 Containment entry complete
1234 Residual heat removal system put in service
1330 Reactor coolant system temperature at 280 deg. F.
and pressure 356 psig
1657 Unit achieved cold shutdown (below 200 deg. F.)
1850 Terminated Alert status