

Leslee Shumway Olympic Pipeline Control Center Events



Timeline of Control Center Events 10 June 1999





National Transportation Safety Board

Timeline of Control Center Events, continued





Timeline of Control Center Events, continued





Olympic Pipeline Primary Computer Scan Rate



Bayview Pressure Trend Data



KARA KARA

Timeline of Control Center Events, Continued



REAL BOARD

Computer Operations

• The system administrator in the computer room had no formal SCADA training.



- The system administrator should have notified his supervisor and the controllers when computer error messages first appeared.
- He should not have left the computer room until his supervisor became available.



Computer Database Revisions

- New records added to the primary on-line SCADA computer caused both computers to fail.
- These SCADA database revisions were performed without prior testing.



• SCADA computer changes should be implemented and thoroughly tested on an off-line system.





