

NATIONAL TRANSPORTATION SAFETY BOARD
Office of Research and Engineering
Washington, D.C. 20594

July 25, 2002

Errata to Specialist's Computer Study
SCADA Control System

A. ACCIDENT

Location: Bellingham, Washington

Date: June 10, 1999

Time: 1530 Pacific Daylight Time

Pipeline: Olympic Pipeline Co.

NTSB #: DCA-99-MP-008

Chairman: James R. Cash
Electronics Engineer
National Transportation Safety Board

The following changes should be made to the Specialist's Computer Study SCADA Control System report dated April 8, 2002.

1. The heading letter "B" was inadvertently left out. All heading letters on page 1 should be changes as follows: Summary should be heading letter "B", Background should be heading number "C", and on page 13, Details of Investigation should be heading letter "D".
2. On page 1, first line the correct description of the system is Vector SCADA not vice versa as printed.
3. Page 2: numbered paragraph "4". The first sentence replace the word "all" with the word "select".
4. Page 8, forth line: replace the words " would reach" with the word "exceeded".
5. Page 8: remove 3rd paragraph from report.
6. Page 9: 2nd line: delete the words "this" and "historic" from the 2nd sentence.
7. Page 11: 1st paragraph; 10th line: change the word "queue" to "batch".

8. Page 11: last line in 1st paragraph; change the sentence to read "This normal balance can be upset by a batch job in which the default priority has been overridden, being intentionally submitted with a higher than normal priority."
9. Page 15: 2nd to last sentence on page. Change the word "programming" to "system support".
10. Page 16; 2nd paragraph, 5th line: change the words "submitted to the batch queue" to "was adding records in SCADA".
11. Page 16, 2nd paragraph, line 13; change word "crashed" to "halted"
12. Page 16 2nd paragraph, last sentence in paragraph; change the words "new historical batch job" to added records"
13. Page 19; 7 lines down from top of page: change words at beginning of sentence from "Common system administration" to "Digital Equipment Corporation recommends that common "
14. Page 19: 2nd paragraph 4th line; change word "all" to "selected"

James R. Cash

Electronics Engineer