Outline of Signal field log from VHLC at South Arcadia, July 21, 2012

1.	13:09:42	E Signal request
2.	13:25:06	BNSF train occupies approach; EA green signal lighted.
3.	13:26:53	BNSF train takes EA signal at South Arcadia
		OS false (occupied)
		EA signal red lamp is lighted
4.	13:27:23	East (BNSF North) approach occupied
5.	13:29:15	4ATPR (KCS NB Approach) false (Train on approach)
6.	13:29:30	W track (BNSF) unoccupied. Train is now occupying OS and east track
7.	13:29:31	OS picks up; train has moved out of OS
8.	13:29:43	4NPR false; KCS 4 signal is cleared
9.	13:31:56	EATR true; BNSF train clear of east approach
10.	13:35:34	4TPR false; KCS train occupies OS
		4NPR true; KCS signal red
11.	13:35:40	3TPR false; KCS train across diamond
12.	13:35:49	3ATPR false; KCS train occupies opposite approach
13.	13:38:17	4TPR true; KCS train clears first portion of OS
14.	13:38:18	4APTR true; KCS train clear of approach
15.	13:38:21	3TPR true; KCS train is clear of OS and diamond
16.	13:42:14	3ATPR true; KCS train clear of north approach
17.	15:12:03	EGZ true; BNSF dispatcher sends a request to clear E signal
18.	15:23:59	EBYE true; BNSF north bound lower signal yellow light on
19.	15:26:22	4APTR false; KCS train on approach to South Arcadia Interlocker
20.	15:26:43	WTR false; BNSF train passes intermediate signal 120.1, which is the approach to South Arcadia. Logs from equipment at that location show that the signal was

Displaying a Y/Y aspect.

21. 15:29:31 OSTR false; BNSF train occupied OS

EBYE false; EB signal yellow lamp energy removed

EBRE true; EB signal red lamp on

22. 15:29:45 4TPR false; KCS train occupies OS at South Arcadia

23. 15:29:46 Logs indicate inputs from KCS signal equipment lost. This is the time of impact;

Trains collide and KCS signal equipment is destroyed.

Note

At 13:35:34, the 4NPR is true, indicating that the KCS 4 signal is red. At 15:29:57, the 4NPR goes false, as the KCS signal equipment is destroyed by the derailment, and inputs from their equipment is lost. The 4 signal is red starting at 13:35:34, and stays red throughout these events.