KilnScout Maintenance Schedule

Weekly Tasks

1. *Identify sensors being used but not transmitting.* Use the 'Find KilnScout' screen and set the highlight parameter to 7 days. Identify sensors with 'Date Last Used' as normal but 'Most Recent Transmission' is highlighted red. Ensure the sensors are on, if necessary replace the battery. Once powered up, perform a Verifiable Load Device (VLD) check to ensure it is correctly calibrated.
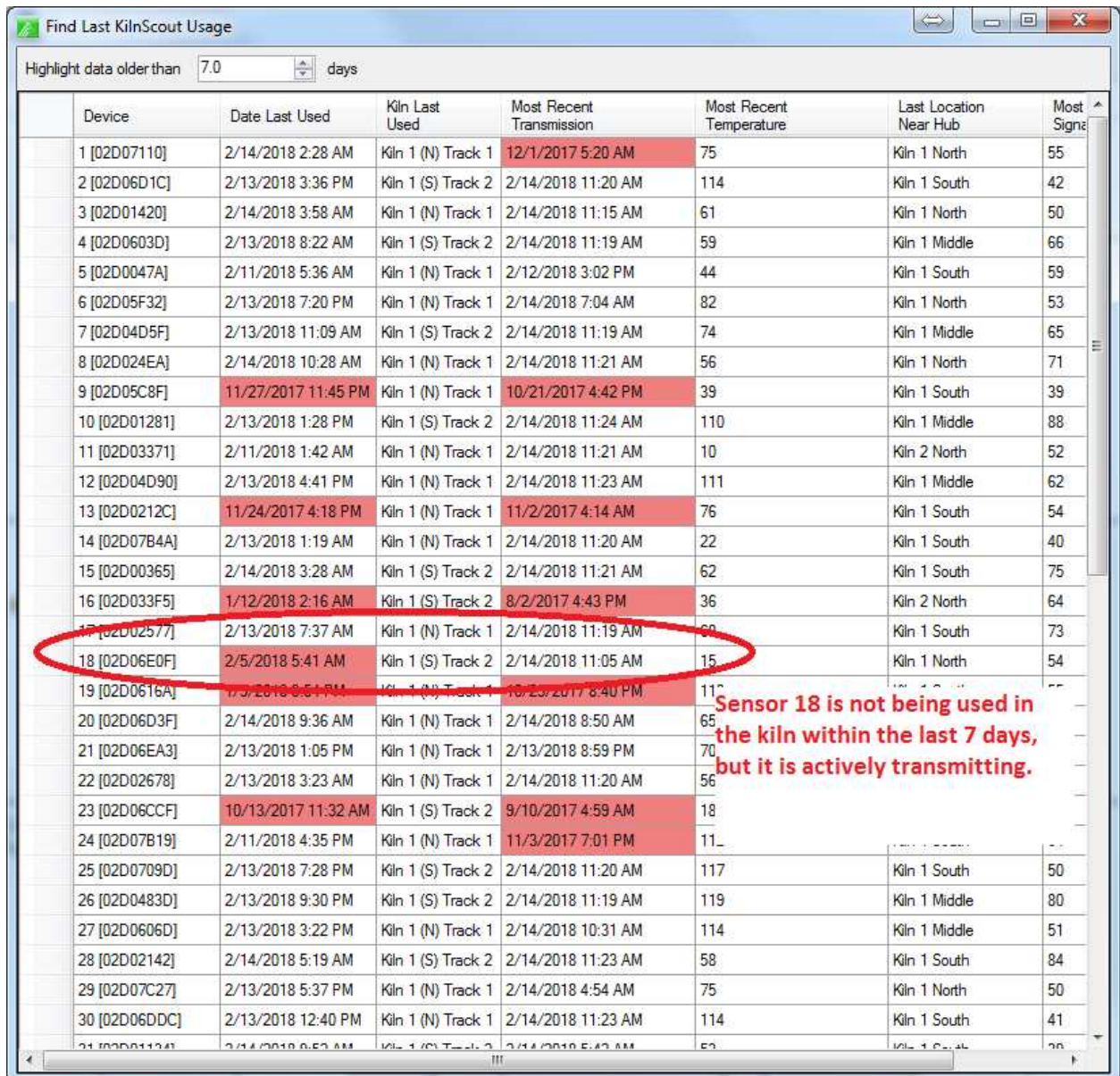
Figure 1- Sensor not transmitting

2. *Identify sensors transmitting but not used.* Use the 'Find KilnScout' screen and set the highlight parameter to 7 days. Identify sensors with 'Date Last Used' as red but 'Most Recent Transmission' is normal. Perform a VLD check and put them back into the sensor rotation.

Figure 2 - Sensor not used in kiln

Device	Date Last Used	Kiln Last Used	Most Recent Transmission	Most Recent Temperature	Last Location Near Hub	Most Signa
1 [02D07110]	2/14/2018 2:28 AM	Kiln 1 (N) Track 1	12/1/2017 5:20 AM	75	Kiln 1 North	55
2 [02D06D1C]	2/13/2018 3:36 PM	Kiln 1 (S) Track 2	2/14/2018 11:20 AM	114	Kiln 1 South	42
3 [02D01420]	2/14/2018 3:58 AM	Kiln 1 (N) Track 1	2/14/2018 11:15 AM	61	Kiln 1 North	50
4 [02D0603D]	2/13/2018 8:22 AM	Kiln 1 (S) Track 2	2/14/2018 11:19 AM	59	Kiln 1 Middle	66
5 [02D0047A]	2/11/2018 5:36 AM	Kiln 1 (N) Track 1	2/12/2018 3:02 PM	44	Kiln 1 South	59
6 [02D05F32]	2/13/2018 7:20 PM	Kiln 1 (N) Track 1	2/14/2018 7:04 AM	82	Kiln 1 North	53
7 [02D04D5F]	2/13/2018 11:09 AM	Kiln 1 (S) Track 2	2/14/2018 11:19 AM	74	Kiln 1 Middle	65
8 [02D024EA]	2/14/2018 10:28 AM	Kiln 1 (N) Track 1	2/14/2018 11:21 AM	56	Kiln 1 North	71
9 [02D05C8F]	11/27/2017 11:45 PM	Kiln 1 (N) Track 1	10/21/2017 4:42 PM	39	Kiln 1 South	39
10 [02D01281]	2/13/2018 1:28 PM	Kiln 1 (S) Track 2	2/14/2018 11:24 AM	110	Kiln 1 Middle	88
11 [02D03371]	2/11/2018 1:42 AM	Kiln 1 (N) Track 1	2/14/2018 11:21 AM	10	Kiln 2 North	52
12 [02D04D90]	2/13/2018 4:41 PM	Kiln 1 (N) Track 1	2/14/2018 11:23 AM	111	Kiln 1 Middle	62
13 [02D0212C]	11/24/2017 4:18 PM	Kiln 1 (N) Track 1	11/2/2017 4:14 AM	76	Kiln 1 South	54
14 [02D07B4A]	2/13/2018 1:19 AM	Kiln 1 (N) Track 1	2/14/2018 11:20 AM	22	Kiln 1 South	40
15 [02D00365]	2/14/2018 3:28 AM	Kiln 1 (S) Track 2	2/14/2018 11:21 AM	62	Kiln 1 South	75
16 [02D033F5]	1/12/2018 2:16 AM	Kiln 1 (S) Track 2	8/2/2017 4:43 PM	36	Kiln 2 North	64
17 [02D02577]	2/13/2018 7:37 AM	Kiln 1 (N) Track 1	2/14/2018 11:19 AM	60	Kiln 1 South	73
18 [02D06E0F]	2/5/2018 5:41 AM	Kiln 1 (S) Track 2	2/14/2018 11:05 AM	15	Kiln 1 North	54
19 [02D0616A]	1/3/2018 8:51 PM	Kiln 1 (N) Track 1	10/25/2017 8:40 PM	11		55
20 [02D06D3F]	2/14/2018 9:36 AM	Kiln 1 (N) Track 1	2/14/2018 8:50 AM	65		
21 [02D06EA3]	2/13/2018 1:05 PM	Kiln 1 (N) Track 1	2/13/2018 8:59 PM	70		
22 [02D02678]	2/13/2018 3:23 AM	Kiln 1 (N) Track 1	2/14/2018 11:20 AM	56		
23 [02D06CCF]	10/13/2017 11:32 AM	Kiln 1 (S) Track 2	9/10/2017 4:59 AM	18		
24 [02D07B19]	2/11/2018 4:35 PM	Kiln 1 (N) Track 1	11/3/2017 7:01 PM	11		
25 [02D0709D]	2/13/2018 7:28 PM	Kiln 1 (S) Track 2	2/14/2018 11:20 AM	117	Kiln 1 South	50
26 [02D0483D]	2/13/2018 9:30 PM	Kiln 1 (S) Track 2	2/14/2018 11:19 AM	119	Kiln 1 Middle	80
27 [02D0606D]	2/13/2018 3:22 PM	Kiln 1 (N) Track 1	2/14/2018 10:31 AM	114	Kiln 1 Middle	51
28 [02D02142]	2/14/2018 5:19 AM	Kiln 1 (S) Track 2	2/14/2018 11:23 AM	58	Kiln 1 South	84
29 [02D07C27]	2/13/2018 5:37 PM	Kiln 1 (N) Track 1	2/14/2018 4:54 AM	75	Kiln 1 North	50
30 [02D06DDC]	2/13/2018 12:40 PM	Kiln 1 (N) Track 1	2/14/2018 11:23 AM	114	Kiln 1 South	41
31 [02D01124]	2/14/2018 9:53 AM	Kiln 1 (S) Track 2	2/14/2018 5:43 AM	53	Kiln 1 South	39

Find Last KilnScout Usage

Highlight data older than 7.0 days

Sensor 18 is not being used in the kiln within the last 7 days, but it is actively transmitting.

3. *Identify all sensors with open and/or short warnings on KilnScout.* Replace leads and perform VLD check. Place back into the rotation.

4. *Identify units requiring new batteries.* Use the Notification screen to determine which KilnScout devices have low battery warnings.

Monthly Tasks
1. Perform VLD check once a month per sensor/lead combination.

Tasks at Kiln Shutdown
1. Inspect antenna plates and antenna inside the kiln. Replace the antenna as needed.
2. Inspect hub boxes for water ingress. Repair as needed.

Calibration Check Procedure using VLDs
1. Using the KilnScout software, click 'Status' then 'Hub Network' menu items.
2. After the hub status is displayed, select hub to listen for radio packets. e.g. 'Kiln 2 South'
3. Click the 'Diagnostics' button. A new screen will show ALL radio packets received by that hub card. IMPORTANT: do not leave this screen open or other hubs will not receive any data.
4. Connect leads from the KilnScout device to a VLD. Do not touch the metal on the leads, then press the 'Mode' button on the KilnScout. This will perform an immediate read and transmit of the VLD device.
5. Wait for a packet to display on the screen. Confirm the data packet has the 'Manual Read' checked AND the 'Alias Name' matches the KilnScout being checked. This ensures the correct device is being tested.
6. Ensure the 'Adj. C' and 'Adj. R' values are within range of the acceptable values on the VLD device.

Figure 3- Calibration Check