

TECHNICAL BULLETIN Drake Lighting NOC Onboarding Procedure

Product:	Drake Lighting System
Brand(s):	SPX AtoN (All Brands)
Effective Date:	January 14, 2024
Part Affected:	Drake Lighting System
Issued By:	Joshua Crowne, Manager, Systems and Solutions Engineering

This bulletin is issued to provide a method of procedure for installers and NOC personnel to onboard Drake/Technostobe lighting systems into the SPX AtoN NOC.

ONBOARDING STEPS (ONSITE STEPS, NOC STEPS)

- Be prepared to spend several minutes providing system information for all equipment. Included but not limited to serial numbers, IP addresses, configurations, etc.
- 2. Provide the NOC with the IP of the SIM card that is installed.
- 3. Setup the site for monitoring using the IP provided.
- 4. Verify communications to the lighting system in asset manager.
- 5. Send the NOC mode transitions via the Photocell.
 - a. If daytime this will be covering the photocell, waiting for the NOC to confirm it is in night mode, uncovering the photocell and waiting for the NOC to confirm it is in day mode.
 - b. If nighttime this will be lighting the photocell with a flashlight, waiting for the NOC to confirm it is in day mode, removing the flashlight and waiting for the NOC to confirm it is in Night mode.
- Send the NOC a power failure by turning off the white interlock switch and wait for the NOC to confirm. If the modem does not stay on an the NOC does not get a power failure the backup batteries need to be replaced using part 12003019.
- Restore the power failure by turning on the white interlock switch and wait for the NOC to confirm. The NOC may not see this restore for up to 10 minutes.

8. Start the automated test by pressing both the 'Day' and 'Auto' buttons together two times quickly.



These buttons are in 2 different places shown below.

If done correctly the 'DIAGNOSTIC' LED will flash quickly (4 times per second) and will start the Automated Field Diagnostic sequence. This process is described below.

- a. Enters Day mode and flashes in White Day.
- b. Enters in Day beacon alarm status. The beacon stops flashing.
- c. Clears Day beacon alarm. The beacon starts flashing.
- d. Enters Night mode and flashes in Red Night.
- e. Enters in Night beacon alarm status. Flashes in White Night (backup mode).
- f. Enters in Day beacon alarm status. The beacon stops flashing.
- g. Clears Day beacon alarm. Starts flashing in White Night.
- h. Clears Night beacon alarm. Starts Flashing in Night Red.
- i. Enters in Marker alarm status.
- j. Clears Marker alarm.
- k. Enters in Photocell alarm status. Starts Flashing in White Day.
- I. Clears Photocell alarm. Starts Flashing in Red Night.
- m. PCU resumes normal operation.

10. These modes and alarms will be visible by the LEDs shown below.



11. For steps 5 to 10 verify all the alarms dropped into asset manager. Please see the sample screenshot below. Please note that the order may be different but you should see the mode transitions when the technician covers/uncovers the photocell, power fail alarms and restores when the technician kills and restores power and all the described alarms and restores when the automated test is completed.

Monitoring History						
		L	evel of Detail: Alarms Only O Standard	All Changes		
	Range	Hour Day	Week Month 90 Days 6 Months	Year All		
Time	Event Type	Source	Description			
1/11/2024 9:24:35 AM	- Incoming Message	Monitoring System	Communication Result: RTU - OK	Q	nual LI	Manual Step Two: Technician will powe cycle the equipment generate and clear
1/11/2024 9:24:35 AM	Restore	Monitoring System	Power Alarm: Power is OFF: OK	Q		
1/11/2024 9:24:35 AM	Restore	Monitoring System	Marker Alarm: Marker Fault: OK	Q		
1/11/2024 9:10:49 AM	- Incoming Message	Monitoring System	Communication Result: RTU - OK	Q		
1/11/2024 9:04:09 AM	- Incoming Message	Monitoring System	Communication Result: RTU - OK	Q	ы	the Power Alarm.
1/11/2024 9:04:09 AM	🚱 Alarm	Monitoring System	Marker Alarm: Marker Fault: Alarm	Q	Ξ	
1/11/2024 9:04:04 AM	😺 Alarm	Monitoring System	Power Alarm: Power is OFF: Alarm	Q		Manual Step One: Technician will cover/uncover the photocell to generate mode changes.
1/11/2024 9:03:33 AM	- Incoming Message	Monitoring System	Communication Result: RTU - OK	Q		
1/11/2024 9:03:33 AM	@ Status Event	Monitoring System	Controller Mode: Auto Night Mode: Yes	Q		
1/11/2024 9:03:28 AM	Status Event	Monitoring System	Controller Mode: Auto Day Mode: No	Q		
1/11/2024 9:01:29 AM	🖙 Incoming Message	Monitoring System	Communication Result: RTU - OK	Q		
1/11/2024 9:01:29 AM	@ Status Event	Monitoring System	Controller Mode: Auto Day Mode: Yes	Q		
1/11/2024 9:01:20 AM	() Status Event	Monitoring System	Controller Mode: Auto Night Mode: No	Q		Three: Switches to OFF MODE and
1/11/2024 8:57:55 AM	- Incoming Message	Monitoring System	Communication Result: RTU - OK	Q		
1/11/2024 8:57:55 AM	Status Event	Monitoring System	Controller Mode: Auto Night Mode: Yes	Q	U	
1/11/2024 8:57:48 AM	- Incoming Message	Monitoring System	Communication Result: RTU - OK	Q	÷	
1/11/2024 8:57:48 AM	C Status Event	Monitoring System	Controller Mode: Off Mode: No	Q	Diagnos	Momentarily issues a Photocell (PEC) Alarm, and then returns to AUTO MODE.
1/11/2024 8:57:33 AM	- Incoming Message	Monitoring System	Communication Result: RTU - OK	Q		
1/11/2024 8:57:33 AM	Restore	Monitoring System	Photocell Alarm: Photocell is Disconnected: OK	Q		
1/11/2024 8:57:19 AM	🔕 Alarm	Monitoring System	Photocell Alarm: Photocell is Disconnected: Alarm	Q		
			-			
1/11/2024 8:57:08 AM	🖛 Incoming Message	Monitoring System	Communication Result: RTU - OK	0		
1/11/2024 8:57:08 AM	() Status Event	Monitoring System	Controller Mode: Off Mode: Yes	× ×	i.	
1/11/2024 8:57:03 AM	@ Status Event	Monitoring System	Controller Mode: Auto Night Mode: No	9		Two : Switches to NIGHT MODE and momentarily issues a Beacon Alarm, followed by a brief Marker Alarm.
1/11/2024 8:56:48 AM	🕑 Restore	Monitoring System	Marker Alarm: Marker Fault: OK	Q	ĕ	
1/11/2024 8:56:34 AM	🔕 Alarm	Monitoring System	Marker Alarm: Marker Fault: Alarm	2	at	
1/11/2024 8:56:18 AM	Restore	Monitoring System	Beacon Alarm: Confirmed Not Working: OK	Q	E	
1/11/2024 8:56:18 AM	- Incoming Message	Monitoring System	Communication Result: RTU - OK	Q	<u>o</u>	
1/11/2024 8:56:03 AM	🙆 Alarm	Monitoring System	Beacon Alarm: Confirmed Not Working: Alarm	Q	Aut	
1/11/2024 8:56:03 AM	- Incoming Message	Monitoring System	Communication Result: RTU - OK	Q		
1/11/2024 8:55/51 AM	@ Status Event	Monitoring System	Controller Mode: Auto Night Mode: Yes	Q		
1/11/2024 8:55:49 AM	() Status Event	Monitoring System	Controller Mode: Auto Day Mode: No	Q	1	One : The lighting system will transition to DAY MODE and issue a Beacon Alarm, which will quickly clear.
1/11/2024 8:55:33 AM	C Restore	Monitoring System	Beacon Alarm: Confirmed Not Working: OK	Q		
1/11/2024 8:55:18 AM	😣 Alarm	Monitoring System	Beacon Alarm: Confirmed Not Working: Alarm	0		
1/11/2024 8:55:11 AM	🚥 Incoming Message	Monitoring System	Communication Result: RTU - OK	Q.		
1/11/2024 0.55.11 AM	@ Status Event	Monitoring System	Controller Mode. Auto Day Mode. Yes	2		
1/11/2024 8:55:04 AM	Status Event	Monitoring System	Controller Mode: Off Mode: No	Q		
1/11/2024 8:54:53 AM	🖙 Incoming Message	Monitoring System	Communication Result: RTU - OK	Q		
1/11/2024 8:54:53 AM	Status Event	Monitoring System	Controller Mode: Off Mode: Yes	Q		
1/11/2024 8:54:48 AM	Status Event	Monitoring System	Controller Mode: Auto Night Mode: No	Q		

Please contact our SPX AtoN NOC for Onboarding and Testing. They are available 24/7. Call 615-503-2228 (Flash Lighting)