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TO: Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
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RE: Model Differences for FCC ID: [YH9NXSW2](#)

Please be notified that we, the undersigned, HLI Solutions, Inc, declare that the differences among the product models of the NX Wireless Switch Station to be as described below.

Table 1 at the end of this document summarizes the differences between the different models (HVINs).

Each model is composed of a printed circuit board assembly that has a “Power Board” (which contains non-RF circuitry) and a “Button Board” (which contains both RF and non-RF circuitry).

The “Power Board” assembly is either 93168050-0000_A1 for the models rated for 120-277V input voltage or 93168050-0001_A1 for the models rated for 347V input voltage. The printed circuit board layout for the “Power Board” is shared between the models. The difference between these two “Power Board” assemblies is the component populated for D1. All other components on the “Power Board” are identical between the models. Details regarding the D1 population on the “Power Board” can be found in the Schematic exhibit as well as the Internal Photos exhibit.

Regarding the “Button Board,” models using 1, 2, 3, 4, or 8 buttons share printed circuit board layout 93168049. Models using 5 buttons use printed circuit board layout 93168455. Models using 6 buttons use printed circuit board layout 93168456. Details of the different printed circuit board layouts can be found in the Internal Photos exhibit.

There are no schematic or component population differences in the RF circuitry between the different “Button Boards.” There are minimal printed circuit board layout differences between the “Button Boards” and these details can be seen in the Internal Photos exhibit.

The population of the non-RF circuitry (buttons, LEDs, and resistors) on the “Button Board” depends on the number of buttons used in the model of the wireless switch station. For the models with 1, 2, 3, 4, or 8 buttons, the “Button Board” assembly differences are identified by the “-000X-B1” suffix where the “X” is a placeholder for the number of buttons used by the model. Details regarding the component population for the different “Button Board” assemblies can be found in the Schematic exhibit as well as the Internal Photos exhibit.

The mechanical design of each model utilizes the same major components with slight variations depending on the number of buttons on each model. The cover plate component and physical buttons are the only mechanical components that are different depending on the number of buttons in the model. The details can be seen in the Internal Photos and External Photos exhibits.



There are ten specialty switches in the NXSW2 product family which have laser printing on the buttons. These specialty switches include the following models: NXSW2-WOO, NXSW2-WORLO, NXSW2-WSS, NXSW2-WCCT, NXSW2-WOO-347, NXSW2-WORLO-347, BTXSW-WORLO, BTXSW-WORLO-347, BTXSW-WSS, BTXSW-WSS-347. The details of the laser printing can be found in the External Photos exhibit.

The NXSW2 product family is available in six colors including white, ivory, gray, light almond, black, and red. The NXSW2 will only be manufactured in the color white. End users may purchase sets of buttons in their desired color and replace the buttons in the field. Photos of the different colors available can be found in the External Photos exhibit. The BTXSW models in the NXSW2 family will only be manufactured in the color white.

The NXSW2 models will use the NXSW2-W-BP-PROD-V1 firmware which enables functionality with our NX ecosystem. The BTXSW models will use the BTXSW-W-BP-PROD-V1 firmware which enables functionality with our BTX ecosystem. There is no difference in the radio transmitter or its radio frequency emissions between the two firmware versions.

Sincerely,

Applicant Signature:

Applicant printed name:

Jessica Browning



Table 1: Summary of Model Differences

Model (HVIN)	Short Description (PMN)	Power Board	Button Board	# of Buttons	Laser Printing on Buttons	Color Options
NXSW2-W1	NX Wireless Smart Switch, 1 Button	93168050-0000_A1	93168049-0001_B1	1	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W2	NX Wireless Smart Switch, 2 Button	93168050-0000_A1	93168049-0002_B1	2	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W3	NX Wireless Smart Switch, 3 Button	93168050-0000_A1	93168049-0003_B1	3	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W4	NX Wireless Smart Switch, 4 Button	93168050-0000_A1	93168049-0004_B1	4	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W5	NX Wireless Smart Switch, 5 Button	93168050-0000_A1	93168455-0000_B1	5	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W6	NX Wireless Smart Switch, 6 Button	93168050-0000_A1	93168456-0000_B1	6	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W8	NX Wireless Smart Switch, 8 Button	93168050-0000_A1	93168049-0008_B1	8	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W1-347	NX Wireless Smart Switch, 1 Button, 347V	93168050-0001_A1	93168049-0001_B1	1	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W2-347	NX Wireless Smart Switch, 2 Button, 347V	93168050-0001_A1	93168049-0002_B1	2	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W3-347	NX Wireless Smart Switch, 3 Button, 347V	93168050-0001_A1	93168049-0003_B1	3	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W4-347	NX Wireless Smart Switch, 4 Button, 347V	93168050-0001_A1	93168049-0004_B1	4	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W5-347	NX Wireless Smart Switch, 5 Button, 347V	93168050-0001_A1	93168455-0000_B1	5	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W6-347	NX Wireless Smart Switch, 6 Button, 347V	93168050-0001_A1	93168456-0000_B1	6	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-W8-347	NX Wireless Smart Switch, 8 Button, 347V	93168050-0001_A1	93168049-0008_B1	8	No	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-WOO	NX Wireless Smart Switch, 2 Button, On/Off	93168050-0000_A1	93168049-0002_B1	2	Yes	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-WORLO	NX Wireless Smart Switch, 4 Button, On/Raise/Lower/Off	93168050-0000_A1	93168049-0004_B1	4	Yes	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-WSS	NX Wireless Smart Switch, 6 Button, Scene Switch	93168050-0000_A1	93168456-0000_B1	6	Yes	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-WCCT	NX Wireless Smart Switch, 6 Button, CCT	93168050-0000_A1	93168456-0000_B1	6	Yes	White, Ivory, Gray, Lt. Almond, Black, Red



NXSW2-WOO-347	NX Wireless Smart Switch, 2 Button, On/Off, 347V	93168050-0001_A1	93168049-0002_B1	2	Yes	White, Ivory, Gray, Lt. Almond, Black, Red
NXSW2-WORLO-347	NX Wireless Smart Switch, 4 Button, On/Raise/Lower/Off, 347V	93168050-0001_A1	93168049-0004_B1	4	Yes	White, Ivory, Gray, Lt. Almond, Black, Red
BTXSW-WORLO	BTX Wireless Smart Switch, 4 Button, On/Raise/Lower/Off	93168050-0000_A1	93168049-0004_B1	4	Yes	White
BTXSW-WORLO-347	BTX Wireless Smart Switch, 4 Button, On/Raise/Lower/Off, 347V	93168050-0001_A1	93168049-0004_B1	4	Yes	White
BTXSW-WSS	BTX Wireless Smart Switch, 6 Button, Scene Switch	93168050-0000_A1	93168456-0000_B1	6	Yes	White
BTXSW-WSS-347	BTX Wireless Smart Switch, 6 Button, Scene Switch, 347V	93168050-0001_A1	93168456-0000_B1	6	Yes	White