

Appendix A

Non-Conformities for US Radio Equipment Authorization

Non-Conformities FCC ID: R2LXF2210KEY (CKC CS Ref # E07-000094-FCC-01)

The items listed below represent requests for information following review of this application for certification under United States (FCC) regulations. . Further question may arise pending review of responses to these items.

OK	#	Non-Conformity or Comment	Submitted Response	Respondent / Date of Response
x	1	Forth paragraph of the provided circuit description addresses the operation of XF21X0 readers which may not be applicable to XF2200 and XF2210 family of access control readers. Please provide revised circuit description.	Revised operational description with correct model number was provided.	11/20/07 CKC Labs
x	2	The device incorporated the ability to communicate with auxiliary equipment using Wiegand or RS485 protocols, however the test set does not indicate the data cable is connected to any auxiliary device. Please justify the setup.	TCB Committee clarification: the setup meets ANSI 63.4 requirement. 11/20/07 Manufacturer clarifies the open circuit is worse case loading for the product.	10/24/07 TCB Committee
x	3	The device incorporated the ability to communicate with auxiliary equipment using Wiegand or RS485 protocols, however the test set does not indicate the data communication functionalities are exercised. Please justify.	11/20/07 Manufacturer clarifies the open circuit is worse case loading for the product.	11/20/07 CKC Labs.
x	4	The device description indicates the product is capable of receiving signal from a passive RFID tag, however, the test report does not indicate the device was exercised by receiving a transponder signal during the test. Please explain.	Not required.	10/24/07 TCB Committee
x	5	Page 11, 13, 15, 17, 31, 32, 33, 35, 37, 39,.The provided radiated emission data sheets include a transducer legend T1 cable sited 9k-1GHz . However, the calibration of this transducer cannot be validated. Please provide calibration date of the transducer used. 11/20/07 Rephrase: please provide a test report with transducer T1, cable site D 9k-1GHz, listed in the test equipment table with appropriate calibration and calibration due dates. Pages in questions are Page 11, 13, 15, 17, 31, 32, 33,	CKC Labs provided revised test report . however the provided clarification did not meet the report requirement. 11/21/07: Revised test report with calibration and cal due date of transducer T1.	11/20/07 CKC Labs 11/21/07 CKC labs

		35, 37, 39		
CK Cla bs	6	The installation manual indicates the device operates in the range of 5 – 16 Vdc. However, page 52 of the test report shows the voltage variation is performed at +/-15 % of 12V instead of -15% of 5 V and +15% of 16V. . Please provided justification to fulfill 15.31(e) requirement of “shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.”	TCB Committee clarification: The Voltage variation pertains to AC power. 11/20/07: declared nominal operational voltage is 12Vdc.	10/24/07 TCB Committee
x	7	Through out the report, the test condition indicates a cable with ferrite installed was used , however the installation manual described the cable as “ a 12 conductor cable that contains a connector on one end and tinned wires on the other end.” Please provide an updated users manual incorporating any necessary statements in accordance with 15.27.	Manufacturer clarified the cable supplied with the product contains a built in ferrite.	11/20/07 CKC Labs
x	8	The FCC statement in the installation manual does reference to Class B device, Please provide an updated users manual incorporating the appropriate users manual statement in accordance with 15.105.	TCB Committee clarification: The statement is only applicable to Part15B computer peripheral.	10/24/07 TCB Committee
x	9	The return frequency of the transponder/RFID tag is not identified in any provided document. Please provide the return frequency of the transponder.	Manufacturer clarification: Return frequencies are 13.56, 424kHz and 848 kHz.	11/20/07 CKC Labs
x	10	The provided occupied bandwidth was measured with a RBW of 100Hz, However, ANSI 63.4, 2003 . Section 13.1.7.specifies a minimum RBW of 1kHz . Please justify the accuracy of occupied bandwidth measurement using RBW of 100Hz. Rephrase 101907 “The occupied bandwidth was tested using a bandwidth lower than prescribed by ANSI C63.4, please clarify whether the amplitude was unaffected by the decrease in RBW or provide updated measurements as necessary.”	TCB Committee clarification: The RBW used meets requirement.	10/24/07 TCB Committee

NOTE: Since this application E07-000094, employs the test report FC07-061.pdf which is identical to test report for application E07-00092, the technical non conformity listed is the same as non-conformity found in application E07-00092.

The items indicated above must be submitted before processing can continue on the referenced application. Failure to provide the requested information within 60 days may result in application dismissal pursuant to Section 2.917(c) and forfeiture of the filing fee pursuant to Section 1.1106.

---CKC CS SECTION--- ---Information below this line is for CKC CS Evaluators only---

CKCCS Note: Additions to non-conformities may be listed in a separate table for convenience. When separated, the non-conformity reference serial number (NN) is incremented using in the following format reference # E07-000094-FCC-NN.