



Defence Research and Development Canada, Centre for Security Science

Taser X2 Preliminary Investigation Report Highlights

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1. *"Although the Evidence Sync software records some electrical parameters of the Taser X2, they are ambiguous and therefore independent electrical testing of the Taser X2 should continue." (Pg. i)*
2. *"The Engineering Log [that contains the results of self-diagnostics performed by the Taser X2] is only accessible to Taser International factory engineers." (Pg. 23)*
3. *"The percentage indicated on [Trilogy Logs] is ambiguous; as such, this graph does not provide any useful quantitative data." (Pg. 32)*
4. *"Although the Pulse Logs provide some information regarding the voltage levels inside the Taser X2 and the charge delivered to the subject, these were found to be inadequate for testing purposes: a pulse was consistently missing from the logs, the voltage levels were arbitrary and difficult to read, and the definition of charge was ambiguous." (Pg. 66)*
5. *"Given the disclaimers on the Pulse Logs, and the uncertainty regarding what they represent, it is recommended that independent electrical testing of Taser X2s be continued to verify their proper operation." (Pg. 67)*
6. *"Given that the firmware is continuously being updated by Taser International, it is recommended that the latest firmware be downloaded onto all Taser X2s as soon as a new update becomes available via the Evidence Sync software. Given that the firmware controls the operation of the weapon, electrical testing should be continued on the Taser X2 to monitor its operation as its firmware evolves." (Pg. 67)*

The DRDC also published another study in October 2013 as to the importance of ESW measurement. It is titled, **Technical Performance Testing of Conducted Energy Weapons**. This extensive report stated, *"In the absence of a performance or technical standard, the only standard that can be used to evaluate conducted energy weapons would be [measurement to] the product specification provided by the manufacturer."* (Pg. 52)