



## FREQUENTLY ASKED QUESTIONS

# FM TO UL TRANSITION

### Q: HAZLOC? INTRINSICALLY SAFE? FM? WHAT DO THESE TERMS MEAN?

**A:** The National Electrical Code (NEC) NFPA 70 defines **Hazardous Locations** as areas “where fire or explosion hazards may exist due to flammable gases or vapors, flammable liquids, combustible dust, or ignitable fibers or flyings.”

“**Intrinsically Safe**” is an equipment design protection method for Division 1 which encompasses hazards that may be present under normal operating conditions or frequently present during maintenance and repair work.

**FM Approvals** is a private company which tests and certifies products and also writes standards. Some of the FM standards are for certification of Intrinsically Safe products, but others are not.

### Q: WHAT'S CHANGING?

**A:** Currently Motorola manufactures radios that are approved to the FM 3610\_88 standard. These radios can continue to be manufactured until 12/31/2015.

In the spirit of globalization, FM released a new FM3610\_10 Intrinsically Safe standard to harmonize with IEC international standards. Motorola will be transitioning to a new TIA 4950 standard for Hazardous Location certification of 2-way radios, which is similar to the FM3610\_88 standard.

Compliance testing will be done by UL (Underwriters Laboratories). Radios will be approved to TIA 4950 standard for use in Division 1, Class I, Groups C, D, Class II, Group E, F, G and Class III hazardous locations. This is the same classification rating as FM3610\_88.

### Q: WAS THERE A PROBLEM WITH FM3610\_88?

**A:** No. FM has acknowledged that there are no known issues. The migration to FM3610\_10 is intended to harmonize with international IEC standards.

### Q: ARE FM APPROVED RADIOS IN THE FIELD SAFE TO USE?

**A:** Yes. FM has stated that there are no known safety issues with products certified under the FM3610\_88 standard. FM approved radios that are deployed in the field will maintain their FM Intrinsically Safe approval status, provided that any service and repairs are done at an FM audited repair facility.

### Q: HOW LONG WILL I BE ABLE TO GET FM APPROVED RADIOS FROM MOTOROLA?

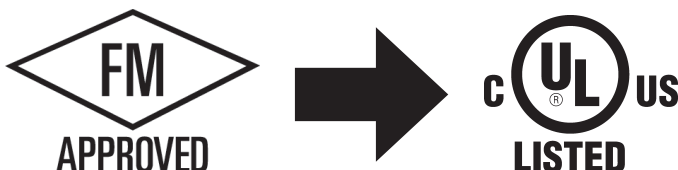
**A:** Radios certified to FM3610\_88 will be phased out of production in December 2015.

### Q: IS THERE A REPLACEMENT FOR THE FM APPROVED RADIOS?

**A:** Yes. The new UL approved radios and batteries will be available in Q1 2015. Radios will be approved to TIA 4950 standard for use in Division 1, Class I, Groups C, D, Class II, Group E, F, G and Class III hazardous locations – the same classification rating as FM3610\_88.

### Q: WILL I BE ABLE TO GET REPLACEMENT BATTERIES AND ACCESSORIES FOR MY OLDER FM APPROVED RADIOS?

**A:** Yes. Repair support (at FM-audited repair facilities) and sales of replacement batteries and accessories will continue.



**Q: CAN I MIX BATTERIES AND RADIOS?**

**A:** No. FM and UL approve the radio and battery together as a system. The FM battery may only be used on an FM radio, and the TIA battery may only be used on a TIA radio, otherwise the certification is not valid.

**Q: WILL THE UL APPROVED RADIOS LOOK DIFFERENT FROM THE FM APPROVED ONES?**

**A:** The UL approved radios will have a new UL label, but physically they will be the same as the radios available now.

**Q: DOES THE EXPIRATION OF THE FM3610\_88 STANDARD ONLY AFFECT MOTOROLA?**

**A:** No. The expiration affects all products that were approved to FM3610\_88 standard.

**Q: WHAT DO I NEED TO DO?**

**A:** In preparation for the FM to UL transition, ensure that your company documentation defines Hazardous Location requirements in terms of Division, Class and Group rather than simply FM Approved or Intrinsically Safe. Knowing the specific Hazardous Locations classification is important in selecting 2-way radios that are approved for use in those environments.

