

Bechtel Jacobs Company Work Smart Standards. Therefore, the requirements apply to the work performed by Company and subcontractor employees. These Work Smart Standard requirements are already contained in existing subcontracts. For facilities with Class I, Division 1 or 2 hazardous locations, the Integrated Safety Management System should be used to develop hazard controls such as written policy, work plans, or signage. These controls should ensure personnel are aware of the need to only use approved electrical equipment including radios in Class I, Division 1 or 2 hazardous locations. The manufacturer's requirement for operating and maintaining radios that are listed and labeled as intrinsically safe is that they be maintained according to the procedures set forth by the manufacturer. Radios must be serviced by a shop that has been certified by the manufacturer or by Factory Mutual. The Factory Mutual document "Approval Standard," class number 3606 outlines the specifications for certifying a radio shop. The only approved radios are those that were ordered as intrinsically safe from the manufacturer (radio & battery combination) and which have been operated and maintained in accordance with the manufacturers requirements.

RESOLUTION/RECOMMENDED ACTIONS- The TSCA Incinerator Facility removed from service all radios not meeting Class I, Division II, Group D requirements. Bechtel Jacobs Company promptly issued a Lesson Learned to alert others of this concern. A Company-wide "Eye on Safety" bulletin that addressed safety in hazardous locations including use of electrical equipment, such as radios, was sent out in August 1999. The "Eye on Safety" bulletins are used in safety meetings and on safety bulletin boards throughout the Company facilities. If facilities contain Class I, Division 1 or 2 hazardous locations, the hazard controls if effect should be evaluated. The evaluation should include compliance of fixed or portable electrical equipment with the requirements of 29 CFR 1910.307 and NFPA 70 articles 500 - 516. The evaluation should also include the adequacy of policies, work control documents, or signage informing workers of the requirements. If portable radio use is needed in Class I, Division 1 or 2 locations, these radios must be listed and labeled for those locations and must be operated and maintained according to the manufacturers instructions. This may require service work to be performed in certified shops. Bechtel Jacobs Company is scheduled to have a subcontract for radio certification maintenance in place in April 2000. Compensatory measures such as prohibiting the use of radios and other equipment in Class I, Division 1 or 2 hazardous locations should be established until approved equipment is available.

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PRIORITY DESCRIPTOR Yellow/Caution

KEYWORDS Intrinsically safe, radio, hazardous locations; radio certification

REFERENCES Occurrence Report Number ORO-BJC-K25WASTMAN-1999-0010

DOE FUNCTIONAL CATEGORIES Conduct of Operations, Safety

BJC FUNCTIONAL CATEGORIES OP - Conduct of Operations

HAZARDS Fire/NFPA, Other
WORK ACTIVITY Facility Equipment, Other