

SRS ALARA CENTER (AC) MARCH 2006 ACTIVITY REPORT

ASSISTANCE, DEMONSTRATIONS, RESEARCH, AND TOURS

The external SRS ALARA Center website is posted at <http://www.srs.gov/general/programs/alara> .
The internal SRS ALARA Center website is available in ShRINE by performing a quick search on ALARA or ALARA Center.

The “New” PPE Database describes personal protective and safety equipment available at SRS on the ALARA Program website available in ShRINE by performing a quick search on ALARA or ALARA Program.

The FLOUR Hanford ALARA Center website is available at www.hanford.gov/rl/?page=973&parent=0

Two Kestrel 1000 Vane Anemometers were ordered for FTF to measure air velocities used to determine air exchange rates for containment huts.

The ALARA Center contacted G/O Corp to have a magnetized wall receiver unit manufactured for their retractable stanchions. Seven were ordered for the Tritium Extraction Facility. The part number is GZ1984 www.gocorp.com

Soil and Groundwater Rad Con personnel were provided with information to procure Fhram Stay Cool disposable coveralls. www.frhamsafety.com

The ALARA Center ordered twelve 1 ft by 3 ft. lead blankets for a mobile rack located in Solid Waste.

The ALARA Center ordered a Nilfisk GM-80I Vacuum System with variable speed control for Solid Waste Division. This system will be used for glovebag ventilation. www.pa.nilfisk-advance.com

The ALARA Center received a “BEST OF CLOSURE” award for use of the Passive Aerosol Generator in FBL.

DWPF was provided several 16 oz. bottles of PBS in different colors for painting fixed contamination areas. SRNL was provided a 16 oz bottle of StripCoat TLC Free to conduct an experiment to determine effectiveness on glass. www.bartlettinc.com

Los Alamos National Laboratory (LANL) was provided information concerning MJW Corporation Visual Survey Data System (VSDS). VSDS is an electronic radiological survey documentation system in use at SRS. www.mjwcorp.com/multi_vsds.php

Thanks to Steve Newell with Regulatory Training for revising the ALARA Center web-site. Reviewing past activity reports is now more user friendly.

F Area D&D were provided an NFS free standing drum hood (GU17P) to provide ventilation when taking samples from a 55 gallon drum. www.nfsrps.com

NEW VENDOR INFORMATION AND VISITS

Russell Seery and Andy Doyle with Nilfisk-Advance visited the ALARA Center on 3/22/06 to inventory their loaned equipment, deliver a new IVT 1000 “Safe Pak” CR HEPA filtered vacuum cleaner and update literature.

On 3/28/06 Ralph Fabian with Desco Mfg. was at SRS and conducted several demonstrations of various dust free surface preparation tools. www.descomfg.com

The ALARA Center received samples of Taginator Graffiti Remover for Concrete, Tagaway Graffiti Remover for painted and smooth surfaces, and Carbon-Ate detergent cleaner from Columbia Basin Hotsy at www.cbhotsy. Taginator and Tagaway both meet the definition of characteristic RCRA Hazardous Waste by virtue of ignitability and therefore any rags generated as waste during the deconning process would be hazardous waste. If these rags also contain radioactive waste then the rags become mixed waste. The manufacturer said they are meant to be applied by spray and then water lanced off.

Heatherly Dukes with Unitech Services provided a CD concerning the EPRI developed DFD and DFDX deconning processes designed specifically for decommissioning applications. The dilute fluoroboric solution not only removes scale and crud buildup, but also removes up to 5-20 microns of the base metal to remove contamination from the metal's fissures. Fluoroboric acid works very well since it does not create a chromium film in the removal process like other acids such as nitric, sulfuric, etc do. The DFD process, which utilizes a traditional cation exchange resin bed, has been used in the U.S. for free release and decommissioning at several commercial utilities such as Beaver Valley, DC Cook, Dresden, Big Rock Point, Maine Yankee, etc. It has been used with transuranics as well. The DFDX process, which uses an electrochemical ion exchange process to create only a metallic waste has only been used in the European nuclear industry to date, though the process has been designed for U.S. requirements and use as well. Both the DFD and DFDX processes can be used in-situ or as an open bath for deconning. Samples of SoftTech yellow disposable coveralls and Unitrek rubber overshoes were also provided.

The ALARA Center received information concerning the Stanelco MW600SS Mobile Welder designed for welding PVC sheeting in the thickness range of 200-800 micron total thickness. The equipment comprises a high frequency (HF) generator having an output of 600W at 27.12 MHz and a hand held applicator unit that is pneumatically operated from an air compressor built into the generator. The applicator unit is fitted with a pair of electrodes that apply pressure to the PVC when the trigger is pulled. There are over 100 units in use in England and one was just placed in service at Argon National Labs in IL. The contact person is Rory MacKenzie with Industrial Automation Services, Inc./Stanelco at (602) 859-2949. A picture of the welder is below



SRS has many of the Nilfisk GM-625 HEPA Vacuum Systems in use. The collection tank can easily and inadvertently be opened by lifting the chrome bar at the bottom of the unit. We have issued a memorandum (attached at the end of this report) that addressed this issue to ensure that the collection tank is not inadvertently opened. Nilfisk-Advance will implement this minor design change on all GM-625 units that we purchase in the future.

UPCOMING VENDOR DEMONSTRATIONS

The 2006 ALARA WORKSHOP will be hosted by CH2M Hill Hanford Group Inc. at Richland WA, July 18 & 19. Contact Owen Berglund or Lee Livesey (509-308-7650 or 509-376-9035). Presenters from SRS contact Robbie Bates.

Frank Givila with F&J Specialty Products, Inc. Air Monitoring Product demonstration, 4/12/06, 766-H Room 1024 at 1:00 PM. www.fjspecialty.com

POINT OF CONTACT

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Nilfisk GM-625 Modification to Prevent Inadvertent Release of Container Assembly

1. Fig. 1 is a picture of the Nilfisk GM-625
2. Drill a 5/16 inch hole thru the frame just right of the wheel (see figure 2 for exact location)
3. Insert cable tie at least 0.270 inches wide thru hole and around container positioning arm (see fig. 3) and secure. Cable ties are Stores Caption Item Numbers 40-30750.45, 40-30750.55 or 40.30750.60)



Fig. 1



Fig. 2



Fig. 3