

Subject: ASO News - April 27, 2012

**Argonne Leadership Computing Facility Upgrade (ALCF-2) Project:** The delivery of the first IMB Blue Gene/Q compute and I/O racks began arriving this week to Argonne's Theory and Computing Sciences (TCS) building. Seven compute racks are on the floor with water and power on and wired up, and three I/O racks were also delivered. Four more compute racks are scheduled to arrive on Monday (4/30). These will be the first racks of Argonne Leadership Computing Facility's 10-petaflops computing system, named "Mira", which will consist of a total of 48 compute racks. If the process continues going well, it is anticipated that delivery will continue at a rate of eight racks per week. Following the delivery, installation, integration, and successful completion of the acceptance tests, it is anticipated that "Mira" will be contractually accepted this fiscal year. In addition, this week the project team is undergoing an annual Earned Value Management Review led by Argonne's Facilities Management and Services (FMS) Division.

**Energy Science Building (ESB):** Overall, construction now exceeds 25% completion. The reinforced concrete structure is completed; the concentration of work is shifting towards the Mechanical, Electrical & Piping (MEP) and architectural disciplines. Metal elements are being installed for support of the soffit at the first floor façade. Most of the structural steel for the penthouse equipment room is fabricated, and erection is due to begin very soon. Currently, the project has logged in approximately 100,000 manpower hours without a serious accident. A topping-off ceremony is being planned by the General Contractor for the week of May 14, 2012.

**ASO participating in recent corporate reviews:** Frank Gines (Level-2 FPD) participated in SC-28 reviews of the NSLS-II project on April 17-18, 2012 and the FRIB on April 24-26, 2012. Dale Dietzel also recently participated in CD-1 Review of the Science and User Support Building (SUSB) project at the SLAC. This week Sean Seamon (Level-3 Contracting Officer) served as team member for MA during the PERT review of Fermilab's procurement system.

**ASO and Argonne Representatives Attend Waste Generators' Workshop:** During the week of April 23<sup>rd</sup>, ASO staff and Argonne Waste Certification Officials attended the Nevada National Security Site (NNSS) annual workshop for generating sites. The NNSS disposal site is the prime recipient for most radiological waste from Argonne, including several unique and difficult wastes generated during the Nuclear Footprint Reduction and Deactivation Plan activity and routinely generated R&D wastes. NNSS continues to experience difficulty with receipt of contaminated truck trailer beds from some shipping sites. Argonne has not been one of the shippers with this issue, but improvements were made to Argonne processes after last year's workshop and further potential improvements will be considered as a result of this year's workshop, in an effort to maintain full compliance and excellent performance.

**Follow-on to B331 Potentially Inadequate Safety Analyses (PISAs):** In response to two PISAs for the Radioactive Waste Storage Facility (B331) and with agreement from ASO, Argonne recently began a thorough walk-down of all active safety-significant structures, systems, and components (SS-SSCs) on the site. At this time, the Laboratory has completed an engineering walk-down on the active SS-SSC for the AGHCF Auxiliary Exhaust System, which identified two issues and five improvement opportunities (none of which impact the current safety basis). All improvement opportunities are being implemented and will not take long to complete.

**Walkthrough of Argonne's hazardous waste satellite accumulation areas and chemical storage cabinets:** ASO's Environmental SME Kaushik Joshi joined Argonne's Independent Assessment group

during a recent walkthrough of the Lab's RCRA hazardous waste satellite accumulation areas and chemical storage cabinets. No findings were noted. The assessment team noted two observations, but concluded the overall RCRA program remains in compliance.

**ASO Attends DOE Accident Investigation Training** – Three members of ASO's ESH Division attended this training on site this week provided by NNSA's National Training Center (NTC).