

## **“Automated Job Hazard Analysis”**

### **Fluor Hanford**

Fluor Hanford (FH) uses *Job Hazard Analysis* as the primary mechanism to implement the applicable Integrated Safety Management (ISM) Core Functions and Guiding Principles within work planning and execution activities. The **Automated Job Hazard Analysis (AJHA) tool** is used to achieve effective worker protection. The FH ISM System specifies requirements for the use of the AJHA and delineates the approach for its implementation within the work management process. At the activity level, work management and ES&H management processes are integrated to focus on the necessary elements of work planning so that work can be conducted in a manner that ensures worker safety and environmental protection while optimizing productivity and efficiency.

As an interactive, computer-based job hazard analysis tool, the AJHA facilitates a team approach to hazard analysis and job planning. This innovative approach has improved the quality and timeliness of work performance at Hanford. Employees are more involved up-front in the planning process, and the exchange of information has allowed work planners to better describe the work hazards and controls. This has decreased down-time and the re-cycling of work documents because workers are better prepared when they arrive at the work site. The AJHA tool allows planners and supervisors to perform preliminary activities such as pre-screening the work to determine the appropriate level of risk and complexity. They then can form a diverse team to walk down the job. From an automated “drop-down” subject-matter-expert (SME) list, planners identify the proper team of workers to participate in the pre-job planning meetings.

Ideally, the initial planning meeting is conducted with all the workers who are scheduled to perform the task in attendance. The meeting is generally facilitated by a Work Planner or a Person In Charge (PIC). If there is a large group in attendance, a projection unit such as an InFocus machine is utilized with the computer. The computer program leads the group through the task identification, an extensive list of potential hazards that are discussed and selected as appropriate and agreed upon. The next step is reviewing the controls selected by the program for the hazards identified. The program will define the controls that assure compliance with regulations and identifies them as “mandatory controls”. It also provides a listing of additional engineered or administrative controls. This assures a level of safety for everyone working the task. The tool also provides formatted documentation for reporting post job review results and lessons learned. Presently being developed is an “Activity Level Feedback Database”, which will further enhance the capability of AJHA

A Power Point slide show with narration exists on the Hanford VPP Home Page at <http://www.hanford.gov/safety/vpp/vppage.htm>. This slide show takes approximately ten minutes to view. For more information on this Program contact Miles Jaeger, Fluor Hanford, at (509) 372-3576. or email him at Miles\_B\_Jaeger@rl.gov