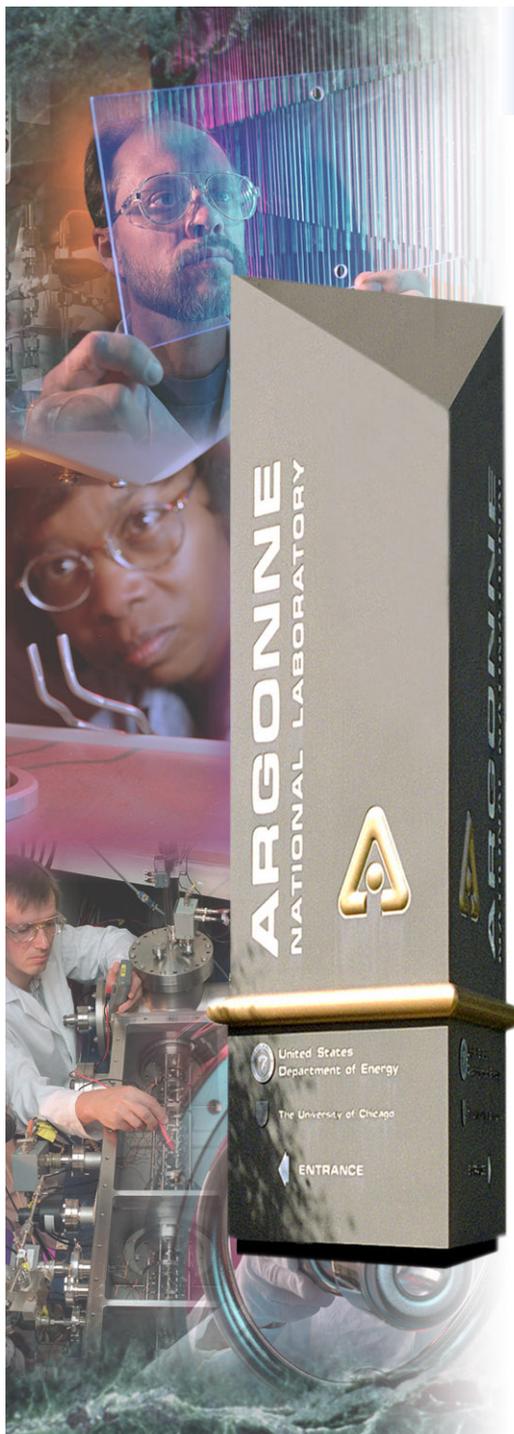


Proposal Number **496**

# PSS Generation-3 Validation System Upgrade

*Safety Interlocks Group*

*October 2005*



*Argonne National Laboratory is managed by  
The University of Chicago for the U.S. Department of Energy*

**Project: (ASD 496) PSS Generation-3 Validation System Upgrade**

**Objective:** Build a PLC based Generation-3 Validation system.

**Background Information:**

- New Initiative
- Multi Year Funding
- Low priority

**Justification:**

Reduce exposure to third party software upgrades and licensing fees. Minimize inventory requirements by minimizing the number of vendors needed to support the validation system. Eliminate training requirements for non-common equipment and software. Utilization of common spares to reduce support inventory.

**Consequence:**

Additional training, software license fees and spares inventory will be required to support the current design.

**Requested Funds (FY06):** \$76.50 K ( AIP )

<b>FY</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>Total</b>
<b>Noneffort</b>	\$76.50 K			\$76.50 K
<b>Existing Effort</b>	\$99.43 K			\$99.43 K
<b>New Effort</b>				
<b>Total</b>	\$175.93 K			\$175.93 K

## **Project: (ASD 496) PSS Generation-3 Validation System Upgrade**

### **Benefits:**

- Share the spare parts inventory with the Gen 3 PSS system
- Share the programming software and license fees with the Gen 3 PSS system
- The system will be better understood by the support staff (similar design to the Gen 3 system)
- Utilize staff training already required to support the Gen 3 PSS systems
- Reduce the number of vendors from 9 to 6

### **Conclusion:**

We believe the proposed changes to the Gen 3 validation system will create a more reliable, more robust system that is not susceptible to operating system upgrades (Windows 98, 2000, XP.....)