

# Alloy 600 Weld Overlay Experience Fall 2007/2008

**aquilex** WSI NUCLEAR SERVICES



## Safety

- 2.5 million man-hours (company-wide) without a lost time accident

## ALARA

- Completed 6 pressurizer nozzle WOL's with cumulative dose of 3.5 Rem

## Quality

- More than 170 WOL's completed without a welded repair

## Schedule

- Completed 9 nozzle WOL's in 15 days, welding 7 locations in parallel
- Completed 6 pressurizer nozzle WOL's in 11.2 days

## Nozzle Configurations

- Pressurizer: Safety, Surge, Spray (CE, B&W and Westinghouse Units)
- Hot/Cold Leg: SDC, Decay Heat, Drain, Charging, Surge, Safety Injection.
- BWRs: N1, N2, N4, N9 Nozzles, and various stainless piping configurations
- PWR Reactor Vessel Nozzles (Spring 09)
- PWR RCP Welds (Spring 2010)
- Core Flood Onlays (Fall 08)

Fall 2007	WOL's
Catawba 2	6
Shearon Harris	6
Kuosheng 2 (BWR)	1
Sequoyah 1	6
Hope Creek (BWR)	1
SONGS 3	1
Palo Verde 3	7
Oconee 3	7
ONGS 2	1
	36

## Winter/Spring 2008

Davis Besse	7
ANO 2	3
Hatch 1 (BWR)	1
Crystal River 3	1
STP 1	5
Millstone 2	4
Oconee 1	1
VC Summer	6
Waterford 3	9
	37

## Fall 2008-09

Songs 3	3
Palo Verde 1	2
Ano 1	3
St. Lucie 1	3
Songs 2	3
Fitzpatrick (BWR)	1
	15

## Future Work

Oconee 1	1
Catawba 2	4
Almaraz 2	6
Almaraz 1	6
Davis Besse	13
	30

**Field Resource Pool** of 600+ to meet schedule and emergency shutdown demands. Aquilex WSI nuclear services ensures our customers get the "cream of the crop." We use nation-wide labor resources to augment local resources.

**Tooling Inventory** of 200+ Automatic GTAW Welding Systems. Aquilex WSI nuclear services designs, builds, and maintains its own equipment, for the rigorous and sometimes adverse field conditions that we routinely face. In addition, we maintain our own spare parts inventory.

**Fully Accredited Nuclear QA and Welding** Program with 1000+ Qualified Welding Procedures providing a depth of proven procedures covering nearly every work situation or materials issue.

**ASME/NBIC/R, S, U, NR and NPT Qualifications and Code Stamps.** Aquilex WSI nuclear services holds American Society of Mechanical Engineers (ASME) "S", "U", and "NPT" certificates and National Board "R" and "NR" certificates, and has a full service Quality Control Program to support the requirements necessary to perform work using those certificates.

**Engineering and expertise** with metallurgical, electrical, welding, tooling design and repair design capabilities – with proven experience in tackling a wide range of custom tooling and technology challenges to meet our nuclear customers' requirements quickly.

**Contact:** Jim Puzan at 678.728.9123 or email: JPuzan@wsi.aquilex.com

Welding Services, Inc. | 2225 Skyland Court, Norcross, GA 30071  
678.728.9100 | www.weldingservices.com