

Sandia National Laboratories NM Site Report

107th IMO^G
Measurement Technologies Subgroup Meeting

Savannah River Solutions
October 19th & 20th, 2010

**E.A. “Tony” Bryce
Daryl Reckaway**

Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company,
for the United States Department of Energy’s National Nuclear Security Administration
under contract DE-AC04-94AL85000.



SNL Site Report

- **Staffing**
- **Training**
- **Activities**
- **Business Outlook**



Staffing

- **Mechanical Calibration**
 - **Six (6) Trades**
 - Three employees currently have over 27 years of service
 - Need to address attrition issues
- **Manufacturing Liaison** (in-coming supplier quality)
 - **Three (3) Trades**
 - One working in Liaison operations as Technical Fabrication Coordinator
 - Actively being recruited by other organizations
 - Continuation of apprenticeship and qualified candidates
 - Closure of shop resulted in loss of 5 apprentice graduates to other areas



Training

- **Zeiss CMM Calibration**
 - Due to labor issue settlement, CMM calibration work was moved to represented employees.
 - Zeiss provided on-site training for two trades
 - Have and presently looking into contracting with Zeiss for repair and PMs
- **Participation in Zeiss user group conference**
- **Attend IMTS – identify new technology**
- **GD&T**
 - Corporate decision to manage GD&T classes through education department
 - New training materials acquired
 - First class held late September



Training “continued”

- **Zeiss CMM Calypso**
 - **Training credits purchased for use in FY11**
 - Calypso Advanced (1 Trades in Calibration and 2 Trades in Manufacturing Liaison)
 - Calypso Curve (2 Trades in Calibration)
- **Talyrond 385 Training**
 - **Budgeted FY11**



Activities

- **Continued Participation in ASME Standards**
 - **ASME Y14.45-2010 “Measurement Data Reporting”**
 - Monthly on-line meetings held
 - One yearly “face to face” held in conjunction with Y14.5



Activities

- **Conversion of CMM Programs Used to Support NG Production**
 - **Funding approved to convert / translate 21 existing Zeiss UMESS 300 programs to Calypso**
 - **Cost for 21 programs - \$42K**



Activities

- **Relocated UPMC 550 to Manufacturing Liaison**
- **PM for CMM's**
 - **Long overdue PM's finally obtained for**
 - UPMC 550 (2 each)
 - Contura
 - **Upgraded software on UPMC 550, UPMC 850, Prismo 16, Prismo 7 Contoura and Romer**
 - **Purchased calibration licenses for in-house calibration**
 - **Working with Primary Standard Laboratory to provide trained personnel for use of Taylor-Hobson CCI/CLI systems surface form/finish measurements**



Business Outlook

- **Mechanical Calibration**
 - **Work load has been steady with increases due to:**
 - Closure of machine shop operations
 - Manufacturing Liaison
 - SNL/CA
- **Manufacturing Liaison**
 - **New to Supply Chain Management**
 - **60% increase in fabrication orders to external suppliers**
 - **Value Stream Event**
 - **Manufacturing Liaison (which includes in-coming measurements) is understaffed**
 - **In-direct organization**
 - **Anticipate continued strong “fab-to-print” presence/need**
 - **In spite of machine shop closure we were able to minimize loss of equipment**