Overview, Fluke Biomedical Power Systems Group

Prepared for:

AMUG, May, 2010
Fluke Biomedical, **Power Systems Group**, is a leading provider of products, services, and technology for the nuclear power industry. Fluke Biomedical is owned by the FLUKE Corporation, a world leader in the manufacture, distribution and service of electronic test instrumentation and software with operations on five continents.
Our History

• 1928, Jack Victoreen formed the Victoreen Instrument Company

• 1998 Victoreen and Keithley Radiation Measurements were Acquired by Lafayette Pharmaceutical and consolidated into Inovision

• 2001 Inovision was Acquired by Syncor International

• 2002 Syncor International was Acquired by Cardinal Health

• 2004 Fluke Biomedical Acquired Radiation Management Services Group from Cardinal Health
Cleveland, Ohio

- 40,000 sq. ft. climate controlled
- Licensed to handle radioactive materials
- Self-contained, fully automated Radiation Calibration Lab with 3’-4’ thick, high density concrete wall construction
- NUPIC approved 10CFR50 Appendix B QA program
- ISO 9001:2000, ISO 13485, EN46001, FDA, CNSC, NAVLAP, NIST approved
• We specialize in Radiation Measurement, Detector Calibration and Monitor Qualification.
• Our customers demand proven solutions for Nuclear Power Plant applications.
• Internet access:
  www.flukebiomedical.com/rms
Victoreen Brand Quality/Reliability

**Victoreen** Survey Meters
- Advanced Survey Meter
- Pressurized μR Ion Chamber Survey Meter and non-pressurized meter with a Beta Slide

**Victoreen** Area Monitors, G-M and Ion Chamber
- Universal Digital Ratemeters
- Digital Smart Detector Area Monitor

**Victoreen** Process Monitors, Beta and Gamma,
- Offline, In-line, Adjacent-to-line Liquid and Airborne PIG+A Monitors
What We Do

Customer Focus Areas, Nuclear Power Plant
Radiation Monitoring Systems, Serving over 100
plants in 15 countries

- Custom Engineered Solutions
- Software Development
- Seismic, Environmental and EMI qualifications
- Primary Isotopic Calibrations
- Technical Support and Field services

Victoreen™ Legacy

Fluke Biomedical adds long-term stability, resources, and
continued dedication to our customers
Recent Projects:

• Continue our on-going analog-to-digital Radiation Monitor upgrades
• Completed a Digital Normal and Accident Range Condenser Air Ejector Monitor Upgrade
• Completed a Digital Control Room Air Intake Monitor Upgrade
• Completed three Seismic Qualifications projects
• Began a 40+ Channel Digital Radiation Monitoring system Upgrade
Digital/Analog Control Room
• Seismic Qualified CROAI Duct Monitors under the SQRSTS Program
• EPRI-SQRSTS, Seismic Qualification Reporting and Testing Standardization Program
• Seismic Test performed at the Trentec, a Div. Of Curtis-Wright, facility in Cincinnati, Ohio
• 10x10 ft Triaxial Table, 8in pk-pk Displacement
• Capable of accelerating 10,000 lbs with a force of 30,000 lbs vertical and 20,000 lbs horizontal
Duct Monitor Seismic Test
Duct Monitor Seismic Test
Duct Monitor Seismic Test
Flowmeter Seismic Test
Flowmeter Seismic Test
Digital Ratemeeter Seismic Test
Digital Ratemeter Horizontal TRS
• 3,100 square feet
• 54, NIST X-Ray Techniques
• 27.5 kV Low Energy X-Ray source
• 2,000 Ci, Cs-137 Source, 850 R/hr
• 1,300 Ci, Co-60 Source, 450 R/h
• 20Ci, 4Ci and 500mCi Cs-137 Sources
Global Calibration Lab
• Continued Nuclear Medicine product introductions

TNT 12000 – All in One, Zigbee Wireless X-ray Test Device; 16 photodiode detectors; Digital Signal Processing; Max/Avg kV/kVp; 8mR/s - 5R/sec; 6x4.5x1.75in Size
• Continued customer support with an enhanced, 3d generation Digital Ratemeter for Power plant Application

• Expanded Global Calibration Lab Automation

• Expanded Biomedical, Fluke and Tektronics Equipment Test and Calibration Services
Plant Vent Air Monitor

Thank You