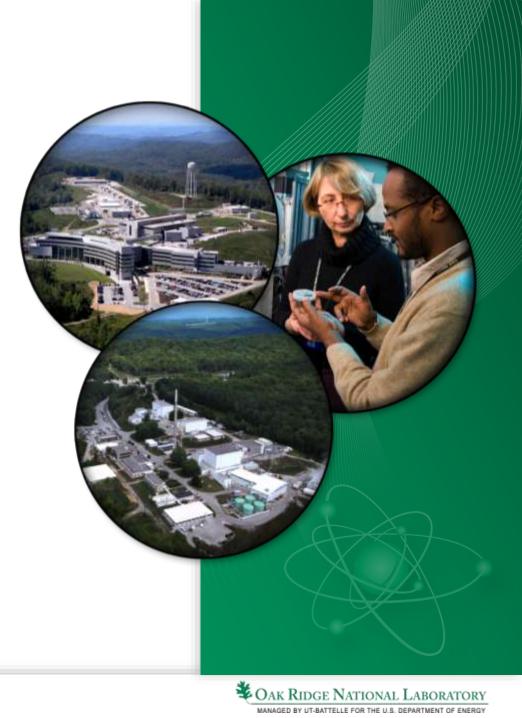
Accelerator Advisory Committee

Ronald A. Crone, ISDD Director May 7, 2013









Ronald A. Crone Research Reactors Division Director

Nuclear Engineer

Davis-Besse Nuclear Power Station

Yankee Rowe Nuclear Power Station

High Flux Isotope Reactor – 21 years

ISDD – January 2013





ISDD Mission

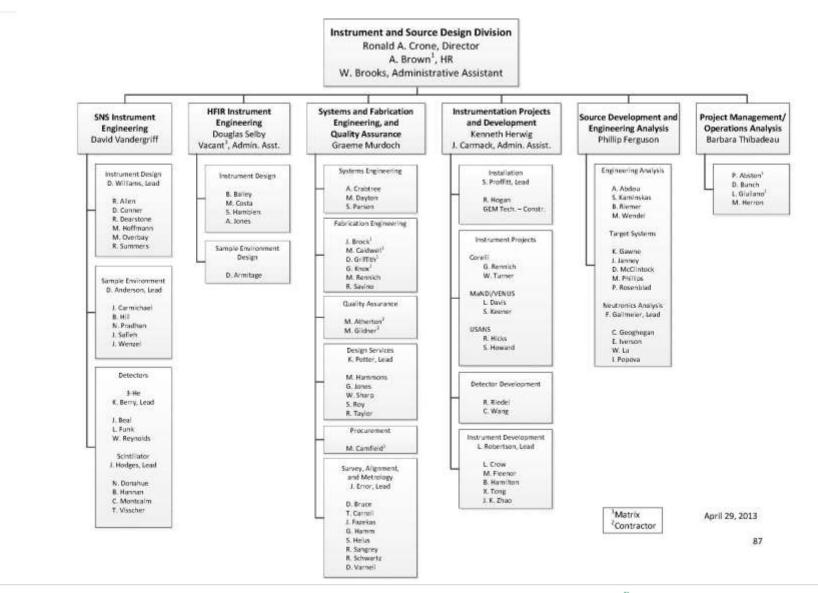
Improve HFIR/SNS Source Performance, Neutron Scattering Instruments, and Scientific Output

High Flux Isotope Reactor

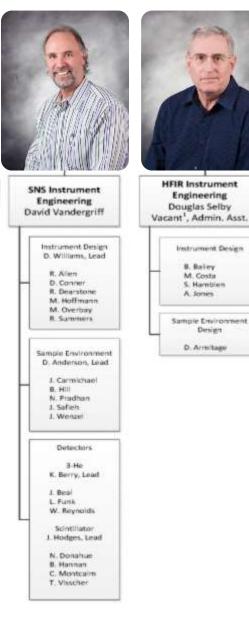
Spallation Neutron Source



ISDD Organization







SNS & HFIR Instrument Engineering

Introducing a systems approach to instruments

Integrated work flow

Improving Configuration Management (instruments, detectors, sample environment, data)

GOAL: Better integration of Operations, Engineering, and Science to IMPROVE INSTRUMENT OUTPUT





Systems and Fabrication Engineering, and Quality Assurance Graeme Murdoch

Systems Engineering
A. Crabtree
M. Dayton
5. Parson
Fabrication Engineering
J. Brock ¹
M. Caldweil ¹
D. Griffith
G. Knox
M. Remich
R. Savino
Quality Assurance
M. Atherton ⁷
M. Glidher ⁴
7050-575111
Design Services
K. Potter, Lead
M. Hammons
G. Jones
W. Sharp
5. Roy
R. Taylor
Procurement
M. Camfield ¹
Sarvey, Alignment,
and Metrology
J. Error, Lead
D. Bruce
T. Carneli
1. Fagekan
G. Harmm
5. Hela
R. Sangrey
R. Schwartz
and the second sec

Systems and Fabrication Engineering, and Quality Assurance

Systems engineering, survey and alignment support to accelerator

Design support for instruments

Fabrication and QA for instruments and accelerator

GOAL: Fabricate perfect & provide high quality technical support for SNS





Installation 5. Profilit, Lead R. Hogan GEM Tech. – Constr.

Instrument Projects

G. Rennich W. Turner MaND/VENUS L. Davis S. Keener USANS R. Hicks S. Howard

Corell

Instrument Projects & Development

Instrument development that aligns with science strategy

Technical oversight of instrument projects

Detectur Development R. Riedel C. Wang Instrument Development L. Robertson, Lead L. Crow M. Fisenoc B. Hamilton X. Tong J. K. Zhao

GOAL: Deliver development & design projects that make SNS & HFIR world's best facilities for scattering





Source Development & Engineering Analysis

Source Development and Engineering Analysis Phillip Ferguson

> Engineering Analysis A Abdou **5. Kaminskas** 8. Riermair M. Wandal Target Systems K. Gawne L.Ianney D. McClyntock M. Phillips F. Renertisized Neutronics Analysis F. Galimeior, Lead C Geoghegan E. Iverson W.Lu 1. Popova

Engineering and neutronics analysis of accelerator, reactor, and instrument systems

Technical and design support for target systems

GOAL: OPTIMIZE source performance to improve scientific output





Project Management/Operations Analysis

Project Management/ Operations Analysis Barbara Thibadeau

> P. Abston¹ D. Bunch L. Gruliano¹ M. Hernon

Project management to meet DOE O 413

Operations systems development (procedures, training, budget, assessment, reporting)

GOAL: Implement project and operations management systems which improve efficiency & effectiveness of NScD





