OFFICE OF SCIENCE
U.S. DEPARTMENT of ENERGY

U. S. Department of Energy

Management and Operation of the Pacific Northwest National Laboratory (PNNL)

Pre-Solicitation Conference

Richland, Washington
November 15, 2007

Welcome

Introduction of Participants

Welcome

Eric A. Rohlfing
Director, Chemical Sciences, Geosciences, & Biosciences Division
Office of Basic Energy Sciences
Office of Science
U.S. Department of Energy

Pre-Solicitation Conference
Richland, WA
November 15, 2007

Pacific Northwest National Laboratory

- PNNL is one of DOE's 17 world class laboratories.
- Since the mid 1990s, DOE has been competing the Management and Operating Contracts for its National Laboratories.
- The reason for competing these contracts, is to assure the best management and operations for our important laboratories and to solidify their long term viability.

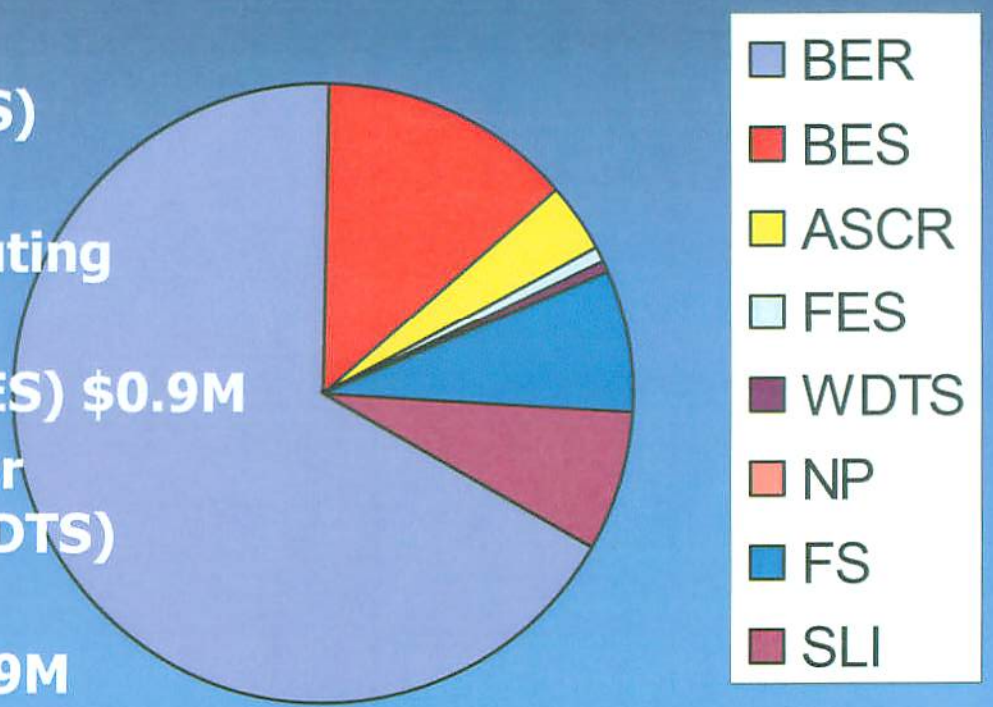
Pacific Northwest National Laboratory

- This is the first competition of the PNNL contract, since the initial competition for management and operation of the Laboratory in the mid 1960s.
- PNNL is critical to the Office of Science and to the Department of Energy
- The results of the competition will have a significant effect upon the long term success and viability of PNNL.
- Your participation will help us assure a successful result.

Office of Science FY2007 Expenditures at PNNL

- Biological and Environmental Research (BER) $91.5M
- Basic Energy Sciences (BES) $18.1M
- Advanced Scientific Computing Research (ASCR) $5.5M
- Fusion Energy Sciences (FES) $0.9M
- Workforce Development for Teachers and Students (WDTS) $0.8M
- Nuclear Physics (NP) $0.09M
- Field Security (FS) $10.1M
- Scientific Laboratory Infrastructure (SLI) $10.0M

Total SC = $137M



Biological and Environmental Research

http://www.sc.doe.gov/ober/ober_top.html

- **Life & Medical Sciences Division ($10.8 M)**
  - Microbial systems biology
  - High-resolution analytical proteomics and high-throughput mass spectroscopy for functional genomics
  - Low dose radiation biology, e.g., mechanisms of radiation-induced genomic instability
- **Climate Change Research Division ($23.2 M)**
  - Climate Forcing – clouds and aerosol properties and processes and their interactions with radiation; modeling cloud processes
  - Climate Change Modeling – regional climate modeling
  - Climate Change Mitigation – carbon sequestration in terrestrial ecosystems
- **Environmental Remediation Sciences Division ($57.5 M)**
  - Subsurface contaminant fate & transport
  - Integrated field-scale subsurface research programs

BER User Facilities at or Partially Managed at PNNL

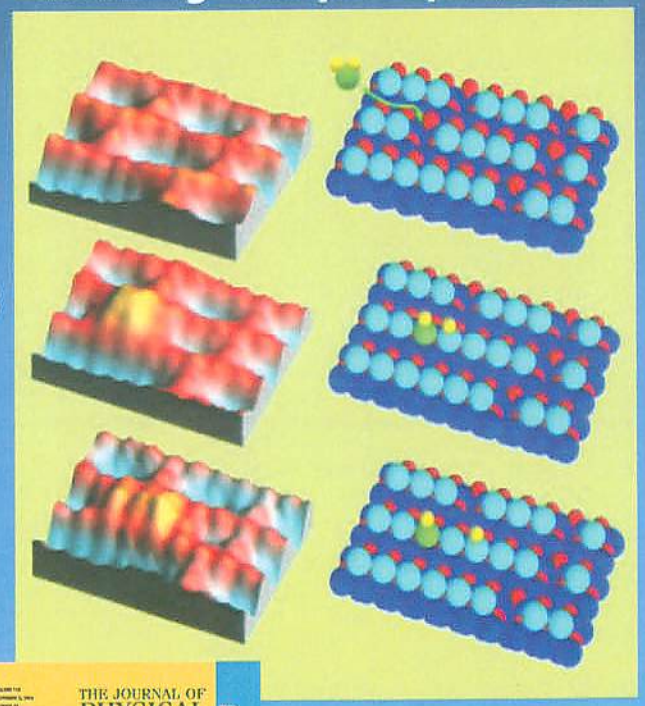
- **Joint Genome Institute (Life & Medical Sciences)**
  - Participates in the JGI, which provides integrated high-throughput sequencing and computational analysis to enable genomic-scale/systems-based scientific approaches.
- **Atmospheric Radiation Measurement Facility (Climate Change Research)**
  - Manages ARM Cloud and Radiation Testbed facilities and ARM Aerial Vehicle facilities used to study effects of atmospheric properties and processes on radiation, especially clouds and aerosols.
- **Environmental Molecular Sciences Laboratory (Environmental Remediation Sciences)**
  - Provides integrated experimental and computational resources for discovery and technological innovation in the environmental molecular sciences.

Basic Energy Sciences

http://www.sc.doe.gov/bes/bes.html

- Chemical Sciences, Geosciences, and Biosciences Division ($15.0 M)
  - Condensed phase and interfacial chemical physics
  - Interfacial and bio-inspired catalysis
  - Chemical and biochemical analysis and imaging
  - Interfacial geochemistry
  - Heavy element chemistry
  - Solar energy conversion
- Materials Science and Engineering Division ($3.2 M)
  - Nanostructured materials
  - Chemistry and physics of ceramics

Watching Catalysts Split Water



Zhang, Bondarchuk, Kay, White, Dohnalek, Journal of Physical Chemistry B 110, 21840 (2006)

Advanced Scientific Computing Research

http://www.sc.doe.gov/ascr/index.html

- **ASCR supports research at PNNL in:**
  - **Applied mathematics ($1.0M)**
  - **Computer science ($0.5M)**
  - **Computational partnerships between applied math/computer science and applications scientists through the Scientific Discovery through Advanced Computing (SciDAC) program ($3.6M)**

- **In support of ASCR's missions:**
  - **Underpin DOE's world leadership in scientific computation by supporting research in applied mathematics, computer science, and high-performance networks.**
  - **Provide high-performance computational and networking resources that are required for world leadership in science.**

Ground Rules and Logistics

Beverly Harness
Contracting Officer
Procurement and Contracts Division
Oak Ridge Office

Richland, Washington
November 15, 2007

Ground Rules

- The terms and conditions of the RFP govern over any information presented today – which is at summary level.
- The Draft RFP is posted in the Industry Interactive Procurement System (IIPS)
  http://doe-iips.pr.doe.gov/
- Other available information is on PNNL RFP website
  http://www.oakridge.doe.gov/external/seb-pnnl

PRESOLICITATION CONFERENCE AND SITE TOUR AGENDA/NOVEMBER 15, 2007

8:00 a.m.	Registration	Lobby
8:30 a.m.	Introduction of DOE Participants	Michael J. Weis, Manager Department of Energy Pacific Northwest Site Office
	Welcome	Eric A. Rohlfing, Director Department of Energy Office of Science Chemical Sciences, Geosciences, and Biosciences Division Washington, DC
	Ground Rules and Logistics	Beverly Harness, Contracting Officer Department of Energy Procurement and Contracts Oak Ridge Office
	PNSO & PNNL Overview	Michael J. Weis, Manager Department of Energy Pacific Northwest Site Office
	PNNL Facilities Overview	Julie K. Erickson, Deputy Manager Department of Energy Pacific Northwest Site Office
	Capability Replacement Laboratory (CRL) Project	Chad Henderson, PSF Project Dir Department of Energy Pacific Northwest Site Office
9:50 a.m.	BREAK	
10:05 a.m.	RFP Overview	Beverly Harness, Contracting Officer
	Statement of Work	Roland F. Hirsch Department of Energy Office of Biological and Environmental Research Washington, DC
	Contract Transition	Martha J. Kass Department of Energy Office of Assistant Manager for Science Oak Ridge Office
	Evaluation Criteria	Frances Keel National Nuclear Security Administration Washington, DC
	Other Interest Areas: Leases	Nancy Carnes, Assistant Chief Counsel For Environment Department of Energy Oak Ridge Office
	Tech Transfer	Emily Schneider, Assistant Chief Counsel For Intellectual Property Department of Energy Oak Ridge Office
	Closing Remarks	Beverly Harness, Contracting Officer
11:00 a.m.		Meeting Adjourns
	LUNCH ON YOUR OWN	
12:30 p.m.	Site Tour	Pre-registered Participants Meet in Front of Richland Federal Building Auditorium

Ground Rules

- All questions must be submitted in writing on the index cards provided; answers will be provided on IIPS and the PNNL RFP homepage.

- Previously submitted questions may be answered in the scheduled one-on-one meetings and also will be posted on the PNNL RFP homepage. The identity of the organization and/or individual submitting questions will not be revealed. In providing any responses, DOE will be guided by the principles of 48 CFR § 15.201(f), which provides in part that:

Ground Rules

When specific information about a proposed acquisition that would be necessary for the preparation of proposals is disclosed to one or more potential offerors, that information must be made available to the public as soon as practicable, but no later than the next general release of information, in order to avoid creating an unfair competitive advantage. Information provided to a potential offeror in response to its request must not be disclosed if doing so would reveal the potential offeror's confidential business strategy, and is protected under 3.104 or Subpart 24.2.

- **Potential offerors must identify all questions that relate to its confidential business strategy. If there is disagreement as to whether the question relates to confidential business strategy, the question will not be answered by the government.**

Purpose of Conference and Site Tour

- To provide information to potential Offerors regarding preparation of their proposal
- Highlight important aspects of the Draft RFP
- To encourage potential Offerors to submit comments and questions on the Draft RFP
- To encourage potential Offerors to recommend any additional information needed for the document library
- Visualize physical descriptions included in the Scope of Work and to provide Offerors a better understanding of the SOW in the PNNL M&O RFP

Pacific Northwest Site Office
&
Pacific Northwest National Laboratory

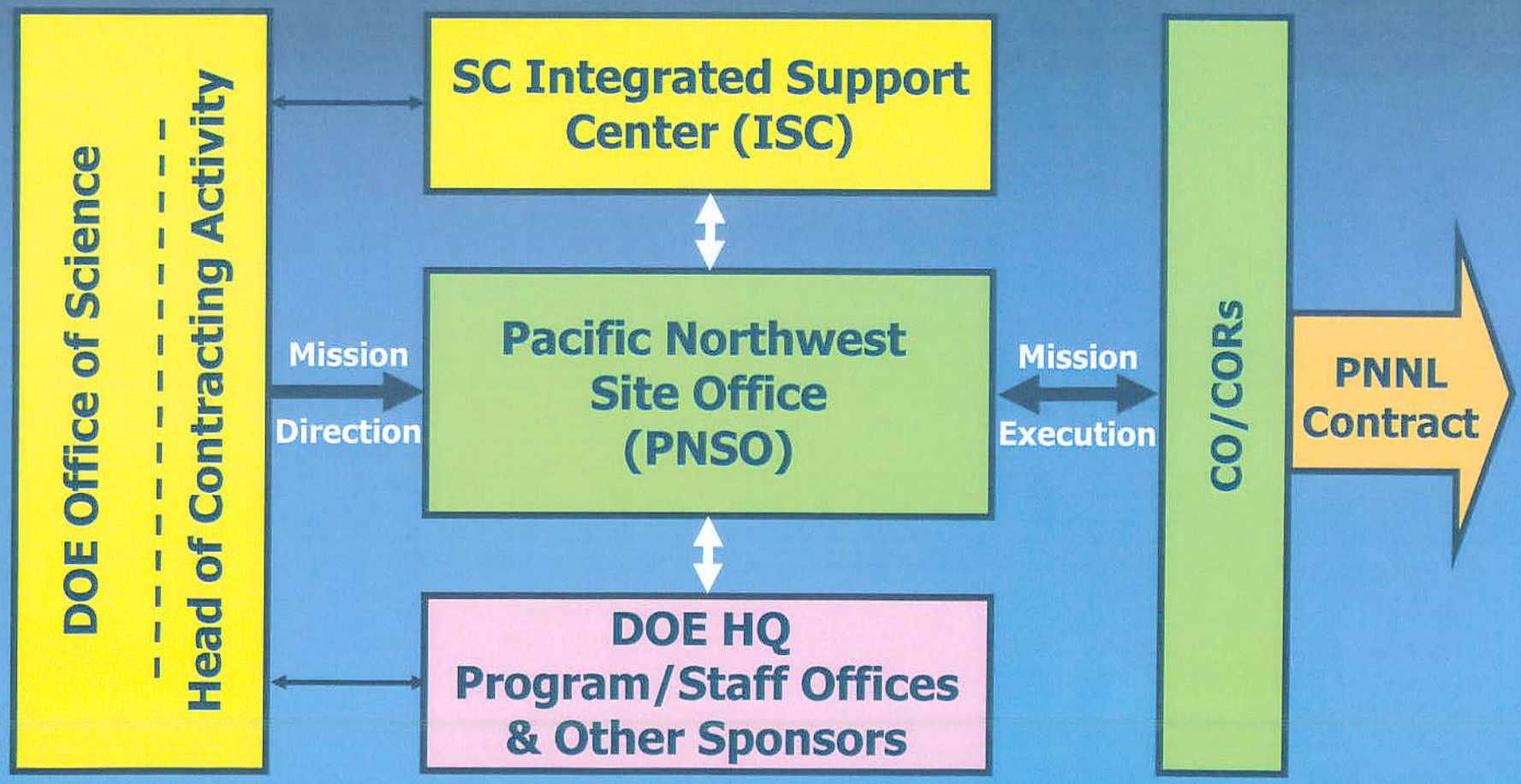
Michael Weis
Manager
Pacific Northwest Site Office

Richland, Washington
November 15, 2007

PNSO Relationship to PNNL and Other SC Organizations

- Office of Science (SC) Chief Operations Officer is responsible for the operation of all SC Laboratories
- SC-HQ establishes policy & direction
- Site Office implements policy & direction
- Site Offices responsible/accountable for laboratory contract management, oversight management of operations and performance
- Service Centers provide support to the Site Office and have performance accountability in specific areas (i.e. CFO)

Line Management Relationship for Pacific Northwest National Laboratory



PNSO SC Mission

Provide programmatic, operational, and institutional stewardship and oversight of the Pacific Northwest National Laboratory (PNNL) in support of the Department's Science and Technology programs, goals, and objectives of which the PNNL plays a role. Provide excellence in Laboratory contract administration through effective management systems. Act as the agent for the DOE Office of Science and other Federal organizations, which utilize the Laboratory. Enable contractor success through the use of a performance based contract vehicle, managed to commercial standards, and administered through strategic partnerships with the contractor, delivering optimal Laboratory success into the future.

PNSO – Enabling Science through Effective Contract Administration

Vision

We will work together with the Office of Science to create an environment where the best science in the world is performed safely, everyone contributes to the mission and has an opportunity to grow.

Fostering a solid Contractual Relationship with the Contractor - an integral element of PNSO's contract administration approach

Pacific Northwest Site Office

- 35 – 40 federal staff with expertise in:
  - Contract Administration
  - Project & Facility Management
  - Operations, Safety, Security, and Business Systems oversight
  - Science and Technology

PNSO Pacific Northwest Site Office

Office of Science

Robust Assurance Process

PNSO personnel plan, conduct, and provide contractor oversight in order to assure performance to contractual requirements. These activities include:

- Day to day operational oversight to ensure safe execution
- Independent judgment and interpretation of contractor performance to support contract administration activities
- Evaluation of contractor assurance systems to ensure they are comprehensive and integrated for all aspects of operations essential to mission success (per DOE O 226.1 and SC Guidance)
- Documented cognizance of contractor performance in support of the Performance Evaluation & Measurement Plan (PEMP)

PNSO Additional Activities

- **Authorize PNNL Work**
  - Provide workscope, deliverables/milestones and allocate resources
  - Ensure hazard analysis and hazard mitigation planning and project controls are in place
  - Monitor work, recommend improvements, and accept deliverables/products
  - Establish performance expectations and evaluate Contractor performance

Success Requires Working Towards A Common Goal

To reach a common goal for scientific excellence at PNNL, PNSO:

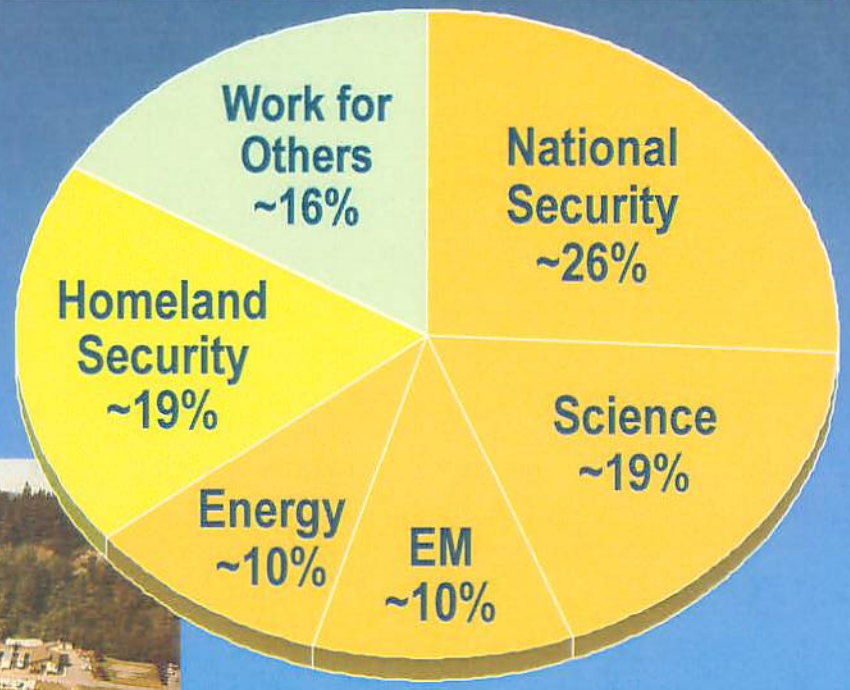
- Expects the Contractor to successfully operate the Laboratory consistent with the terms of the contract and to partner with PNSO to assure long-term success of the PNNL Institution. Specifically we expect:
  - Excellence in safe work execution
  - Excellence in science
- Is expected to be the SC Field Representative with independent judgment on accomplishments of contract requirements and performance on DOE missions/goals/objectives
- Seeks to create an owner-contractor relationship that promotes achievement of mutually beneficial goals
- Recognizes the need to establish aligned objectives and have regular interactions with the Contractor

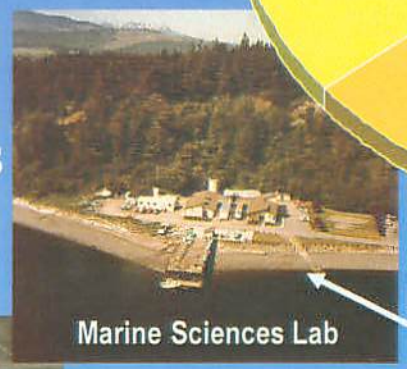
Pacific Northwest National Laboratory

- Renamed Pacific Northwest Laboratory from the Hanford Engineering and Development Laboratory in 1965
- Recognized as National Laboratory in October, 1995
- Current contract extended for one year (September 30, 2008) with option for up to one additional year (September 30, 2009)

Pacific Northwest National Laboratory

- ~$750 million budget
- ~ 4,000 staff
- ~ 2,000 research projects
- ~400 acres
- ~100 active buildings





SC National Scientific User Facility

Environmental Molecular Sciences Laboratory

- **International Scientific Collaboration**
- **High-impact science themes (Geochemistry-Biogeochemistry & Subsurface Science, Biological Interactions & Dynamics, Science of Interfacial Phenomena, and Atmospheric Aerosol Chemistry)**

EMSL Molecular Science Computing Facility Graphics & Visualization Lab

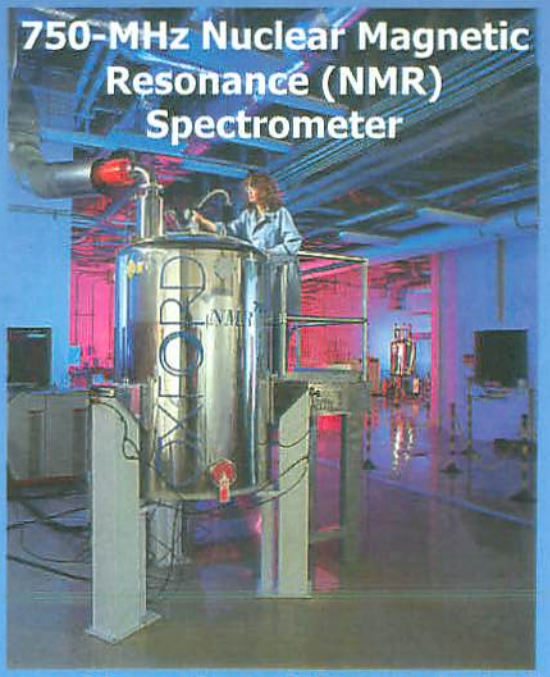
900-MHz nuclear magnetic resonance (NMR)spectrometer

High-Impact Science

PNNL's Science Foundation:

- Systems Science
- Expert Research Teams
- High-performance computing
- Unique, powerful research instrumentation

Expanding knowledge of climate change



Investigating biomolecular structure & dynamics

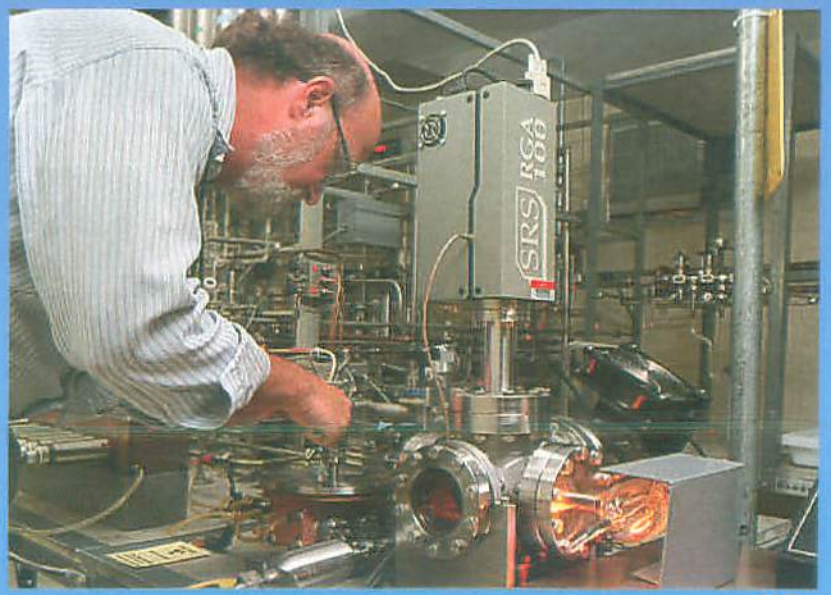
Clean, Secure and Affordable Energy

Science-based solutions for:

- **Reducing dependence on foreign oil**
- **Minimizing the energy system's effect on the environment**
- **Improving efficiency, security and reliability**

Moving the energy system into the information age

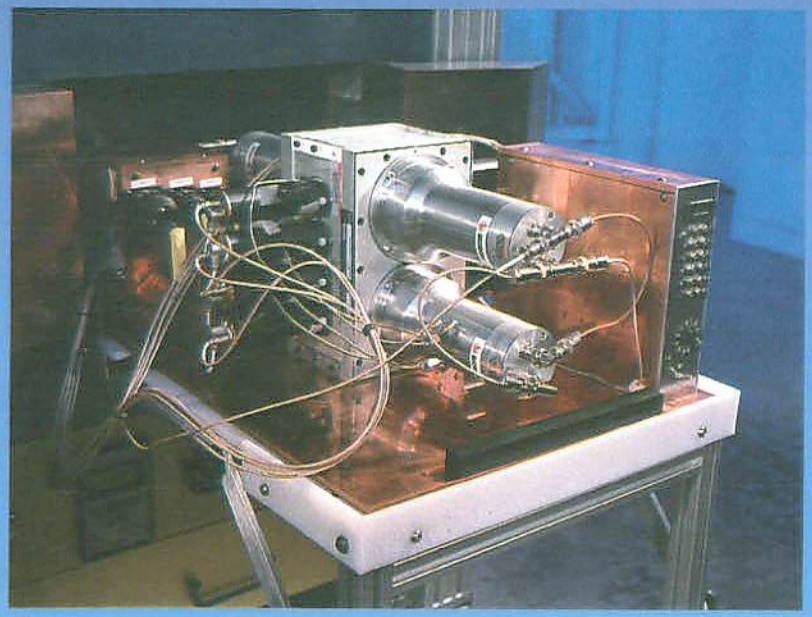
Hydrogen Analysis Systems



National and Homeland Security

Science-based solutions for:

- **Protecting U.S. homeland, international borders, air and sea ports**
- **Monitoring nuclear treaties, preventing and detecting proliferation, countering WMD terrorism**



Developing instrumentation for monitoring nuclear treaties
Automated Radioxenon Sampler-Analyzer

Training border agents to detect smuggling of weapons of mass destruction

Environmental Quality and Security

Science-based solutions for:

- **Preventing environmental damage before it occurs**
- **Preventing or recovering from environmental attacks**
- **Lowering the environmental cost of energy production and economic development**
- **Cleaning up and safely storing legacy waste**

PNNL-developed early-warning sensor will collect samples from the top microlayer of water enabling more sensitive, accurate and early identification of contaminants of concern.

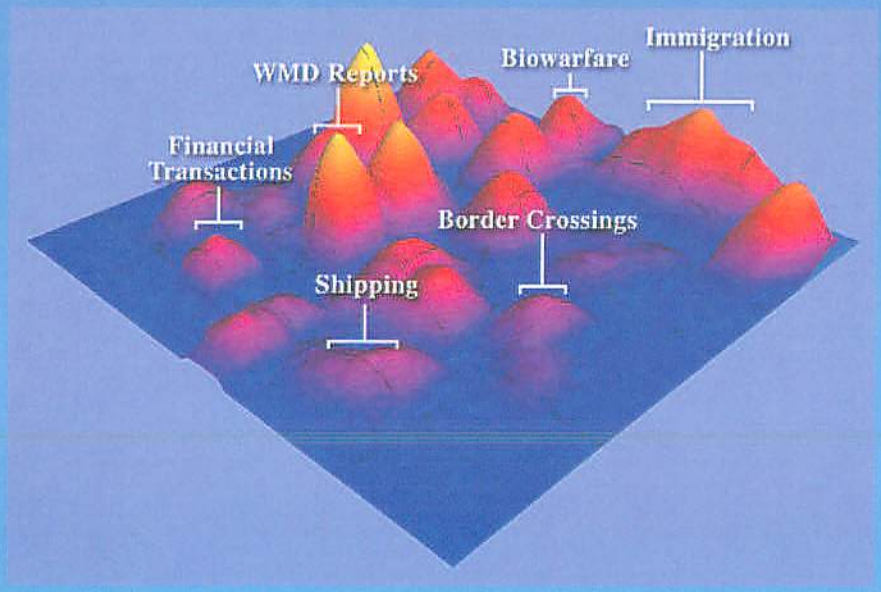
Glassification technology from PNNL melts solid waste into a stable, glass-like product for disposal.

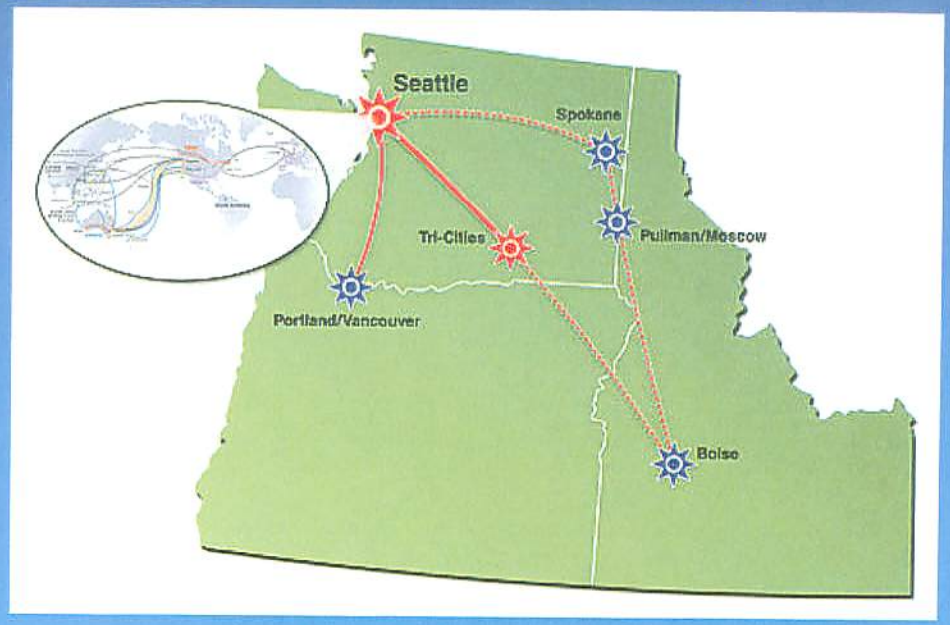
Computational and Information Sciences

Enabling discoveries through:

- **R&D in science-driven computing**
- **Integration of computational and information sciences, statistics and mathematics**

Visual analytics tools for intelligence, counter-intelligence and cyber security





PNNL fiber optic link to Seattle is part of a vision for the Northwest TeraLink, a high performance network connecting centers of research and development.

Pacific Northwest National Laboratory Facilities

Julie Erickson
Deputy Manager
Pacific Northwest Site Office

Richland, Washington
November 15, 2007

PNNL
Horn Rapids Road Looking North

PNNL
Horn Rapids Road Looking South

What PNNL Includes

- Three primary locations:
  - Richland
  - 300 Area
  - Offsite

PNNL Richland Facilities

- All facilities will be DOE leased with exception of Environmental Molecular Sciences Laboratory (EMSL) which is DOE owned
- Life Sciences Laboratory II not included in RFP – may include some leased labs within the facility
- Tour will include stops in Process Development Laboratory West (PDLW), Physical Science Laboratory (PSL), & EMSL

PNNL Richland Facilities

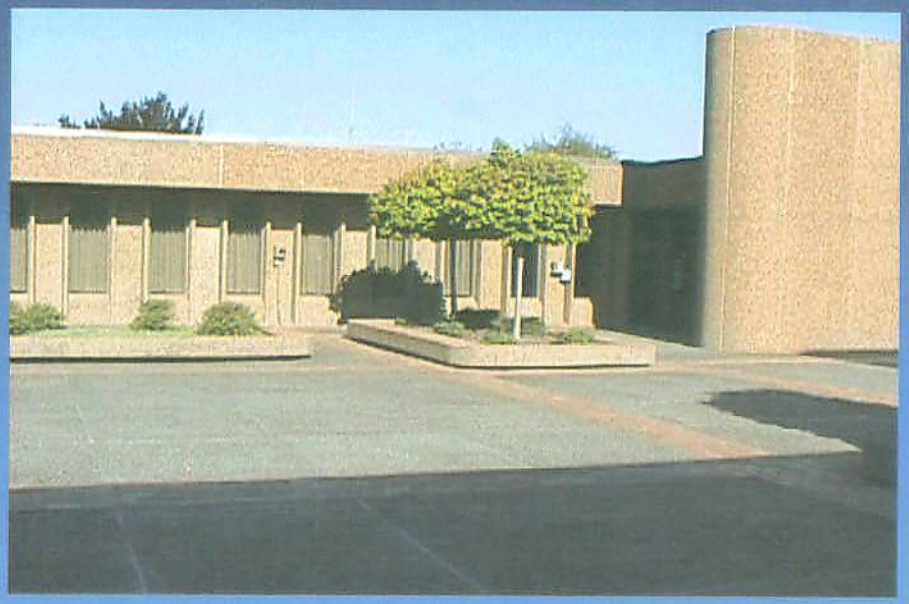
- Environmental Molecular Sciences Laboratory (EMSL)
  - DOE Office of Science National Scientific User Facility
  - Includes office space, dry & wet labs, common space, conference rooms, auditorium, & cafeteria
  - High Performance Scientific Computer
  - Completed 1997
  - ~200,000 sq ft

PNNL Richland Facilities

- **Research Operations Building (ROB)**
  - Office Complex
  - Built in 1969
  - ~70,000 sq ft w/basement

- **Auditorium**
  - Auditorium Seats ~300
  - Built in 1967
  - ~12,000 sq ft w/basement
  - Also provides meeting space

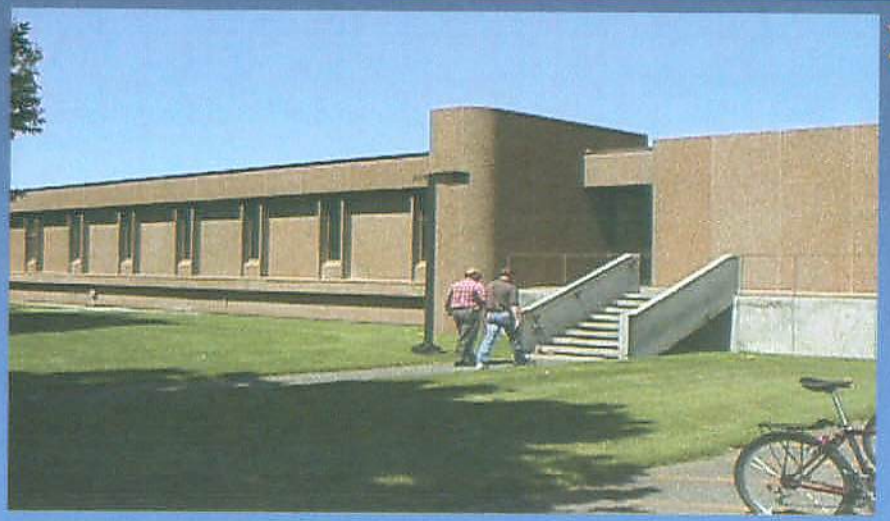
PNNL Richland Facilities



- **Math Building**
  - Primarily electronics labs & office space
  - Built in 1967
  - ~29,000 sq ft w/partial basement

- **Engineering Development Lab (EDL)**
  - Consists of dry/wet labs, high bay & a few offices
  - Built in 1973
  - ~16,000 sq ft w/partial basement & second floor

PNNL Richland Facilities



- **Physical Science Laboratory (PSL)**
  - Consists of ~170 offices, 55 labs, and six maintenance shops (Carpenter, Pipefitters, Electrical, Machine, Optical, Instrument)
  - Built in 1967
  - ~90,500 sq ft w/basement

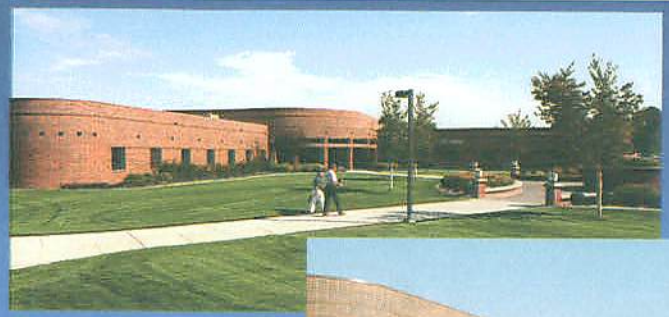
- **Research Technology Laboratory (RTL)**
  - Radiological facility - Majority is wet chemistry labs, dry labs, & adjacent admin. offices
  - Built in 1966
  - ~56,900 sq ft w/partial basement

PNNL Richland Facilities

- **Richland Research Complex Laboratory (ANNEX)**
  - Lab space (dry & electronics) w/ some office space
  - Built in 1973
  - ~9,000 sq ft

- **2400 Stevens Office/ Laboratory Building**
  - Consists of two-story office section and high bay labs.
  - Labs classified as dry labs
  - First Leased in 1979
  - ~93,000 sq ft

PNNL Richland Facilities



- **Information Sciences Buildings (ISB 1 & ISB 2)**
  - Predominantly office buildings with small amounts of Lab space
  - Built in 1991
  - ISB 1: ~50,000 sq ft
  - ISB 2: ~60,000 sq ft

- **National Security Building (NSB)**
  - Predominantly office space, with Limited Area Island workspace & a Sensitive Compartmented Information Facility for classified work
  - Built in 1993
  - ~100,000 sq ft two-story w/partial basement

PNNL Richland Facilities

- **Environmental Technology Building (ETB)**
  - Predominantly office building with small amounts of Lab space
  - Location of PNSO
  - Built in 1994
  - ~100,000 sq ft two-story w/partial basement

- **User Housing Facility (UHF)**
  - 81 Units - includes 6, 7, & 8 room suites, single rooms, & 1 bedroom apartments
  - Built in 2001
  - ~29,000 sq ft two-story

PNNL Richland Facilities

- **Laboratory Support Building (LSB)**
  - Primarily office bay areas with some single offices
  - Built in 1996
  - ~86,000 sq ft two-story

- **Sigma 2, 3, & 4**
  - Office facilities
  - Built in 1970s
  - ~20,000 sq ft each

PNNL Richland Facilities

- **Sigma 5**
  - Primarily office/administrative space with adjoining dry & wet labs
  - Built in 1981
  - ~48,000 sq ft

- **Applied Process Engineering Laboratory (APEL)**
  - An incubator facility that any company, agency, or individual can use
  - Includes office space, labs, and a high bay
  - Built in 1975
  - ~90,000 sq ft (PNNL ~50,000 sq ft)

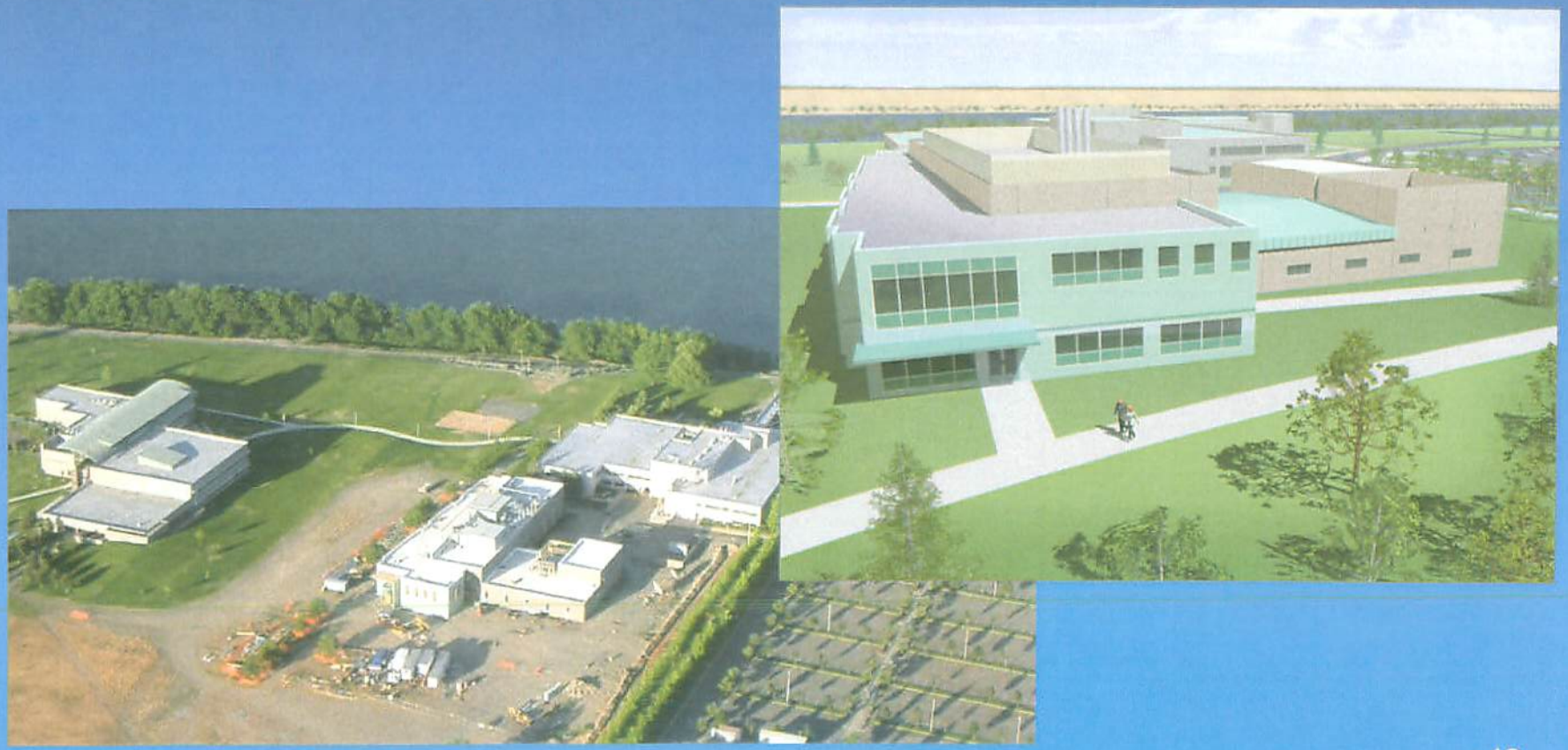
PNNL Richland Facilities

- **Process Development Laboratory West & East**
  - High-bay space
  - Built in 1981
  - West ~7,000 sq ft
  - East ~4,000 sq ft

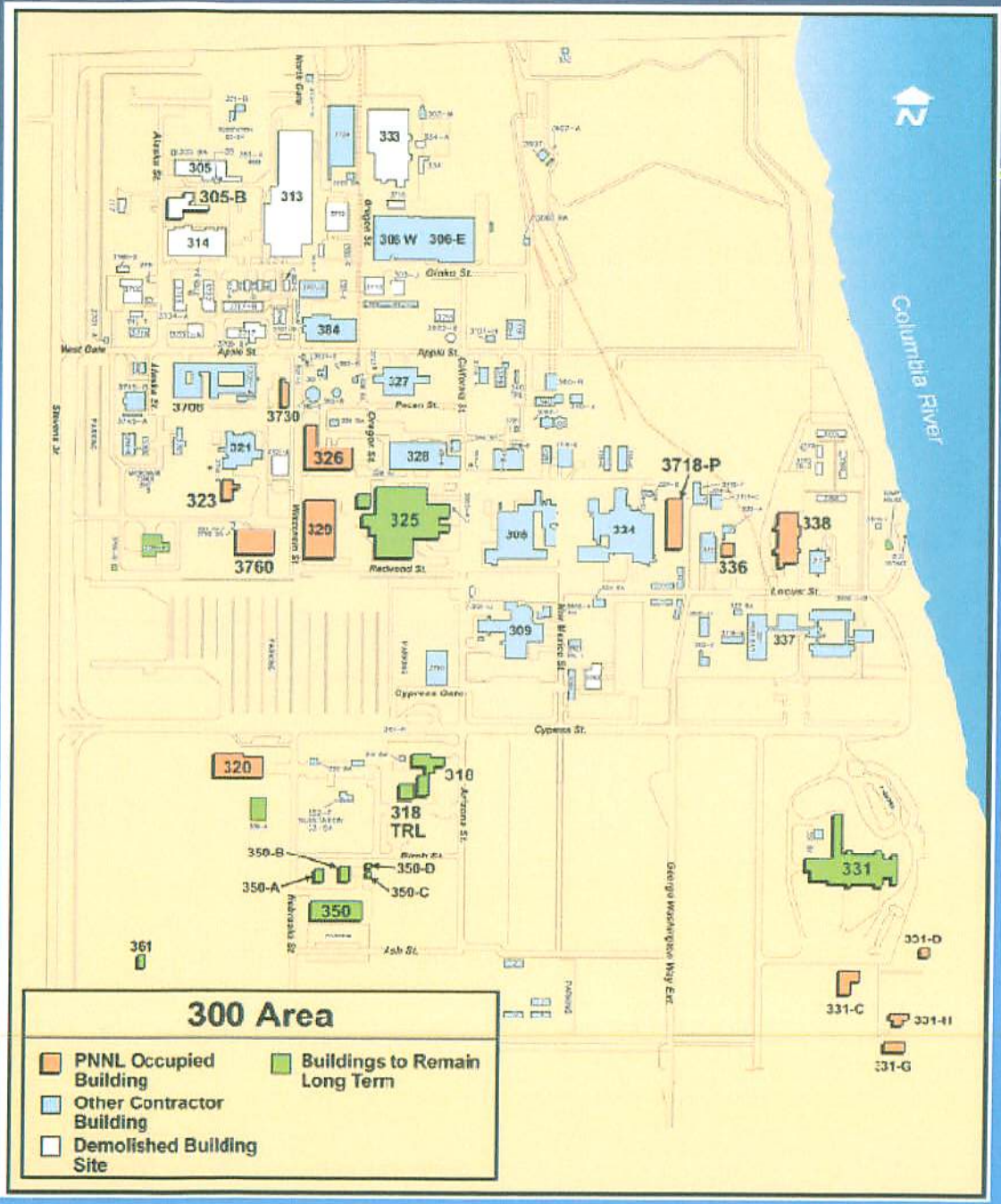
- **Receiving and Shipping Warehouse**
  - Contains large shop area, shipping/receiving area, & some offices
  - Built in 1970
  - ~10,000 sq ft

PNNL Richland Facilities

- **Bioproducts Sciences & Engineering Laboratory (BSEL)**
  - Two-story facility includes dry & wet labs and office space
  - Completion early 2008
  - ~57,000 sq ft (PNNL ~30,000 sq ft)



PNNL 300 Area Facilities



- All DOE owned facilities on the Hanford Site
- 323 & 3718-P turned over to Washington Closure
- 336, 338, & 3730 to be transferred to Washington Closure by end of FY08
- Tour will include stops in 325, 331, & 331-G

PNNL 300 Area Facilities

- **Radiochemical Process Laboratory (325/RPL)**
  - Category II Non-Reactor Nuclear facility containing a mixture of Labs, hot cells and office space
  - Built in 1953
  - ~144,600 sq ft

- **Life Sciences Laboratory (331/LSL)**
  - Three-story facility includes Dry, & Wet Labs and office space
  - Built in 1970
  - ~117,600 sq ft

PNNL 300 Area Facilities

- **Radiological Calibrations Building (318)**
  - Contains high radiation sources
  - Built in 1967
  - ~37,000 sq ft

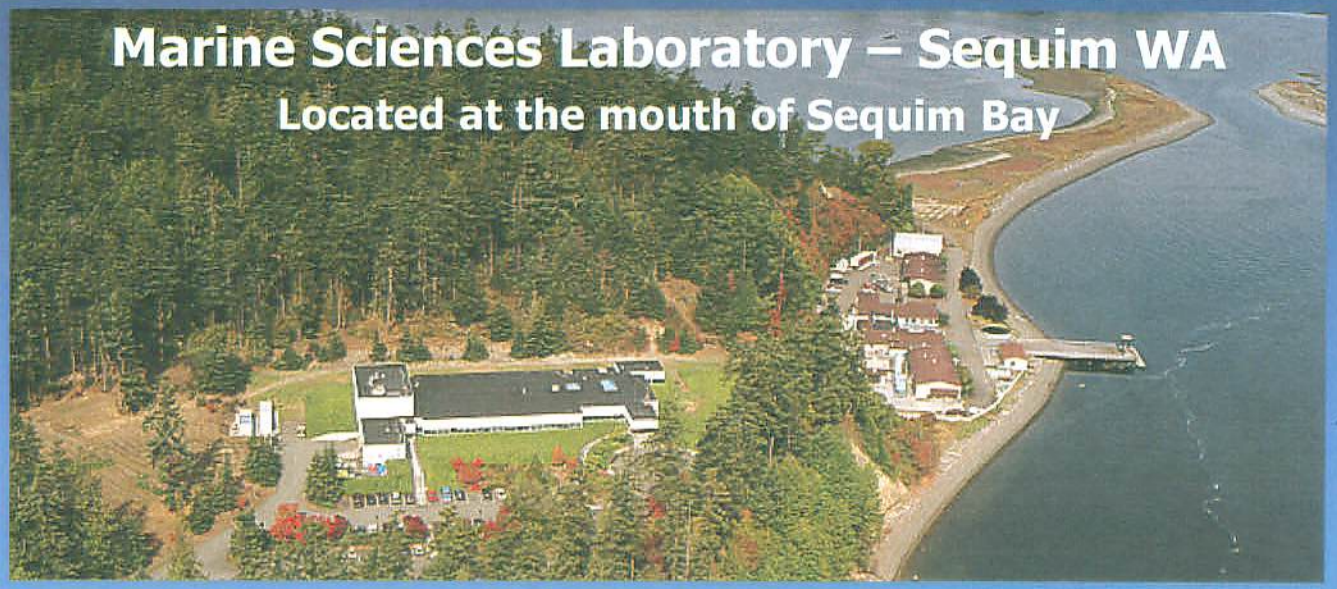
- **Plant Operations & Maintenance Facility (350)**
  - Contains a mixture of machine & craft shops and office space
  - Built in 1980
  - ~17,500 sq ft

PNNL 300 Area Facilities

- **Materials Science Laboratory (326)**
  - Two-story radiological building includes dry, & wet labs and office space
  - Built in 1953
  - ~63,000 sq ft w/basement

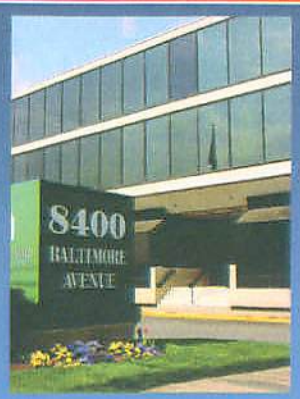
- **Chemical Sciences Laboratory (329)**
  - Two-story radiological building includes general labs, maintenance shop and office space
  - Built in 1952
  - ~39,000 sq ft w/partial basement

Offsite PNNL Facilities



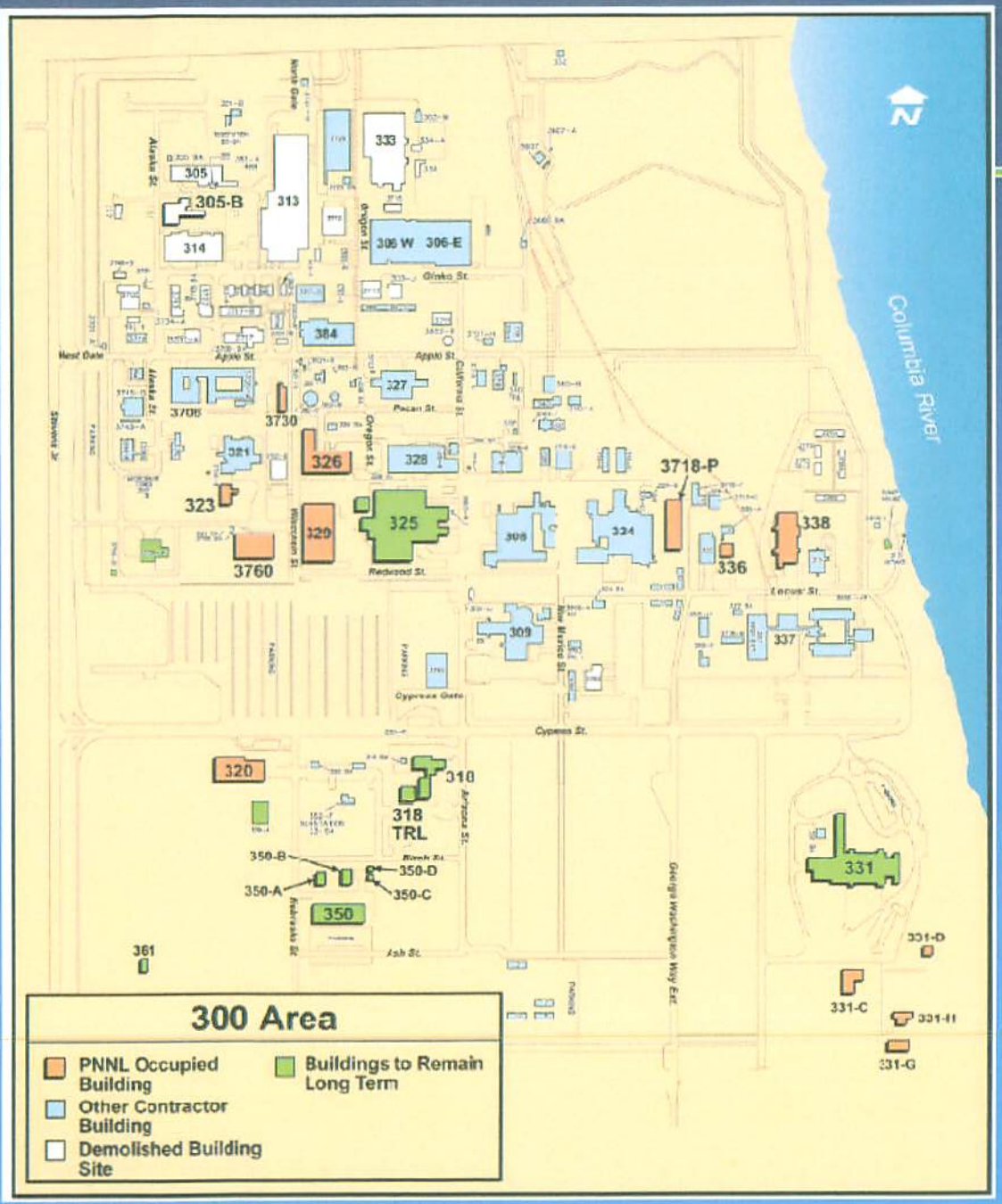
- Will be DOE leased
- 6,000 sq ft of analytical & general purpose labs & ~ 7,700 sq ft of wet or support labs supplied with heated and cooled freshwater & seawater for studies of marine and freshwater organisms
- Several buildings include office space & Sensitive Compartmented Information Facility
- Facilities Built between early 1960s – 1980s

Offsite PNNL Facilities



- Joint Global Climate Change Research Institute
  - Leased space (~12,000 sq ft) in College Park, MD
  - Supports Atmospheric Research Programs
- Office space leased in Portland, OR
  - ~4,600 sq ft in support of DOE Energy programs (BPA & Army Corps of Engineers)
- Office space leased in Albuquerque, NM
  - Polygraph lab (~6,600 sq ft) in support of DOE HQ Office of Intelligence and Counterintelligence
- Aircraft hanger leased at Port of Pasco, WA
  - Storage and maintenance area (~ 10,000 sq ft) for Gulfstream-1 research aircraft

PNNL 300 Area Facilities



- Support EM 300 Area cleanup
- Maintain 4 buildings for PNNL Operations (325, 331, 350, 318)
- Transition capabilities to the Capability Replacement Laboratory

Pacific Northwest National Laboratory Capability Replacement Laboratory Projects

Chad Henderson
PSF Project Director
Pacific Northwest Site Office

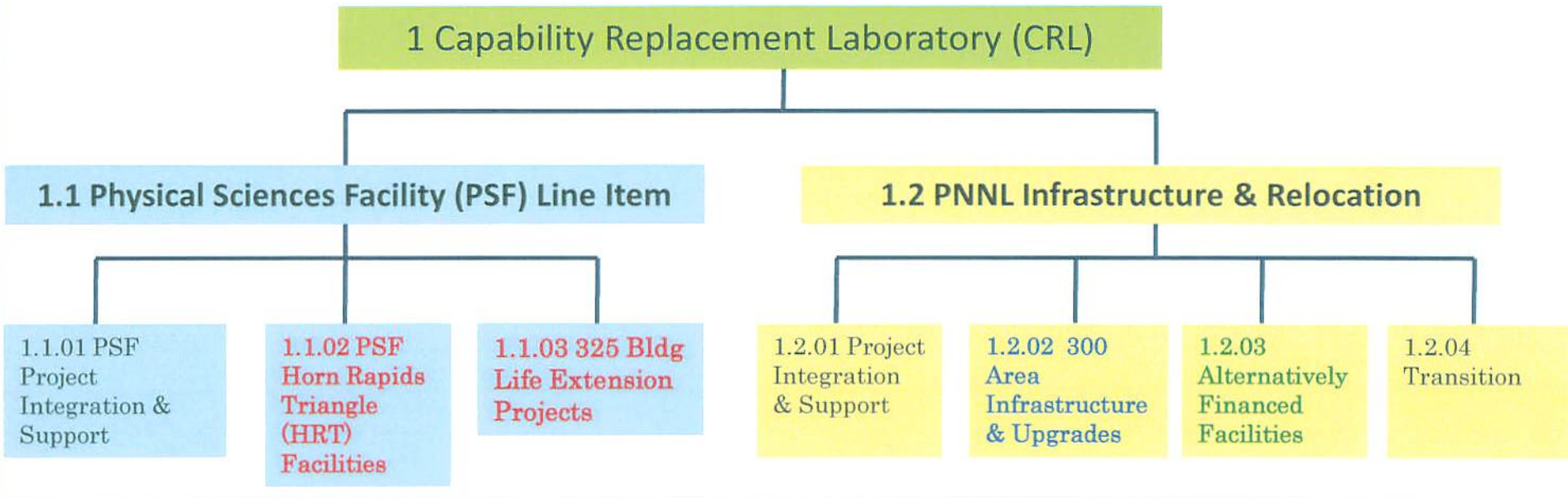
Richland, Washington
November 15, 2007

CRL Scope
10 capabilities retained

Mission Critical Capabilities

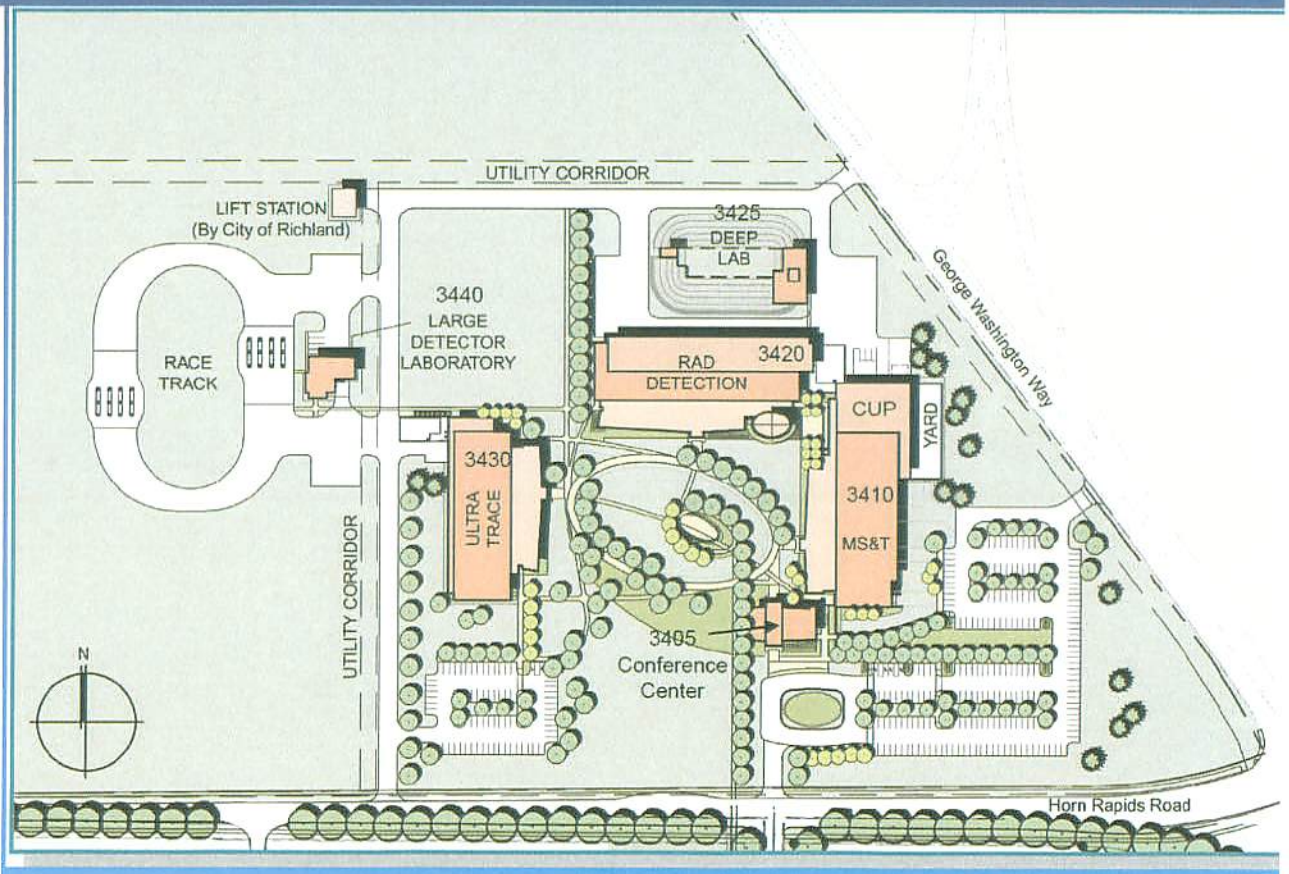
- **PSF - HRT**
  - Ultra-trace
  - Radiation Detection — Capital Line
  - Materials Science & Technology — Item
  - Chemistry and Processing — Funded
- **PSF - 325**
  - Shielded Operations
  - Radiation Detection
  - Materials Science & Technology
  - Chemistry and Processing
- **BSF** Systems Biology — Alternatively
- **CSF** Information Analytics — Financed
- **Building 318**
  - Certification & Dosimetry — Lab Overhead
- **Building 331** — Funded
  - Subsurface Science
  - Environmental Biomarkers
- **Building 350**
  - Support Services Shop

Work Breakdown Structure



PSF New Construction Scope ~200,000 sq ft

- 3410 – Materials Science and Technology
- 3420 – Radiation Detection
- 3425 – Ultra-low Background/Deep Lab
- 3430 – Ultra-trace
- CUP - Central Utility Plant
- 3440 – Large Detector Laboratory
- 3405 - Conference Center*
- (bid alternate*)



325 Building Life-Extension Scope

- HVAC System Upgrades
  - Blank off 13-15 fume hoods
  - 6modular hot cells
  - 6 glove boxes (2 designs)
  - Modular shielding
  - Stack monitoring upgrade
- Replace Static Pressure Control System (HVS)
- Provide 2nd floor office access
- Repair 325A and 325B Roof
- Life-extension upgrades
- Replace Personal Contamination Monitoring system
- Seismic upgrades
- Safety Basis
- Readiness Activities

Radiological Calibrations Building (318) Scope

- **Scope includes:**
  - Electrical
  - Elevator replacement
  - HVAC/roof repair
  - Steam system
  - Metasys upgrades

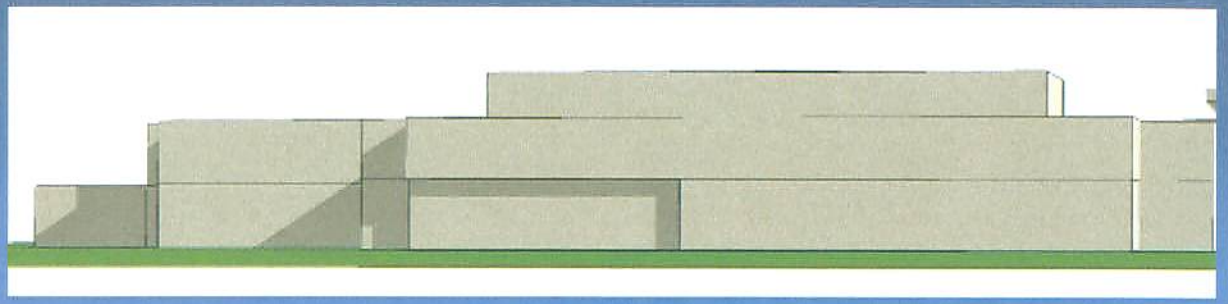
Life Sciences Laboratory (331/LSL) Scope

- **Scope Includes:**
  - HVAC exhaust upgrades
  - Roof replacement
  - Laboratory modernization
  - Metasys upgrades

Plant Operations & Maintenance Facility (350) Scope

- **Scope includes:**
  - HVAC/roof repair
  - Metasys upgrades

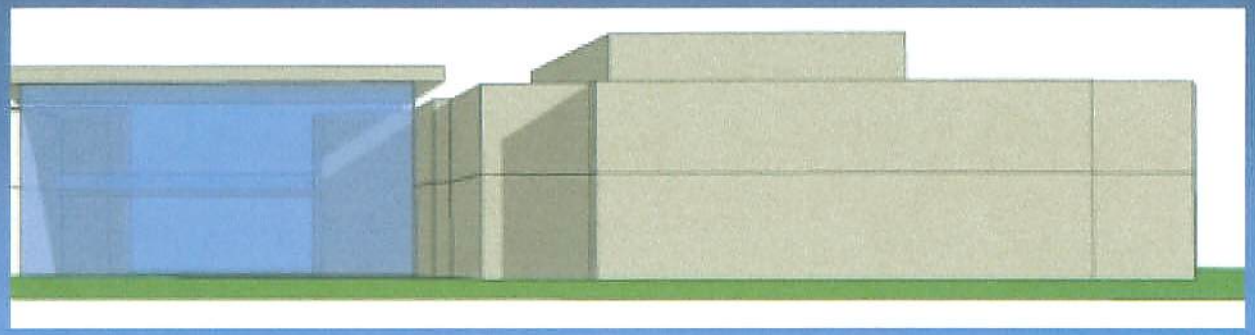
Biological Sciences Facility (BSF)



Facility Overview

Occupancy	130 persons
Gross Square Footage	73,100
Net Rentable Square Footage	71,000
Office Area Laboratories Conference/Common Areas	15,000 SF (net) 30,000 SF (net) 5,000 SF (net)
Site size	8 acres
Parking	180

Computational Sciences Facility (CSF)

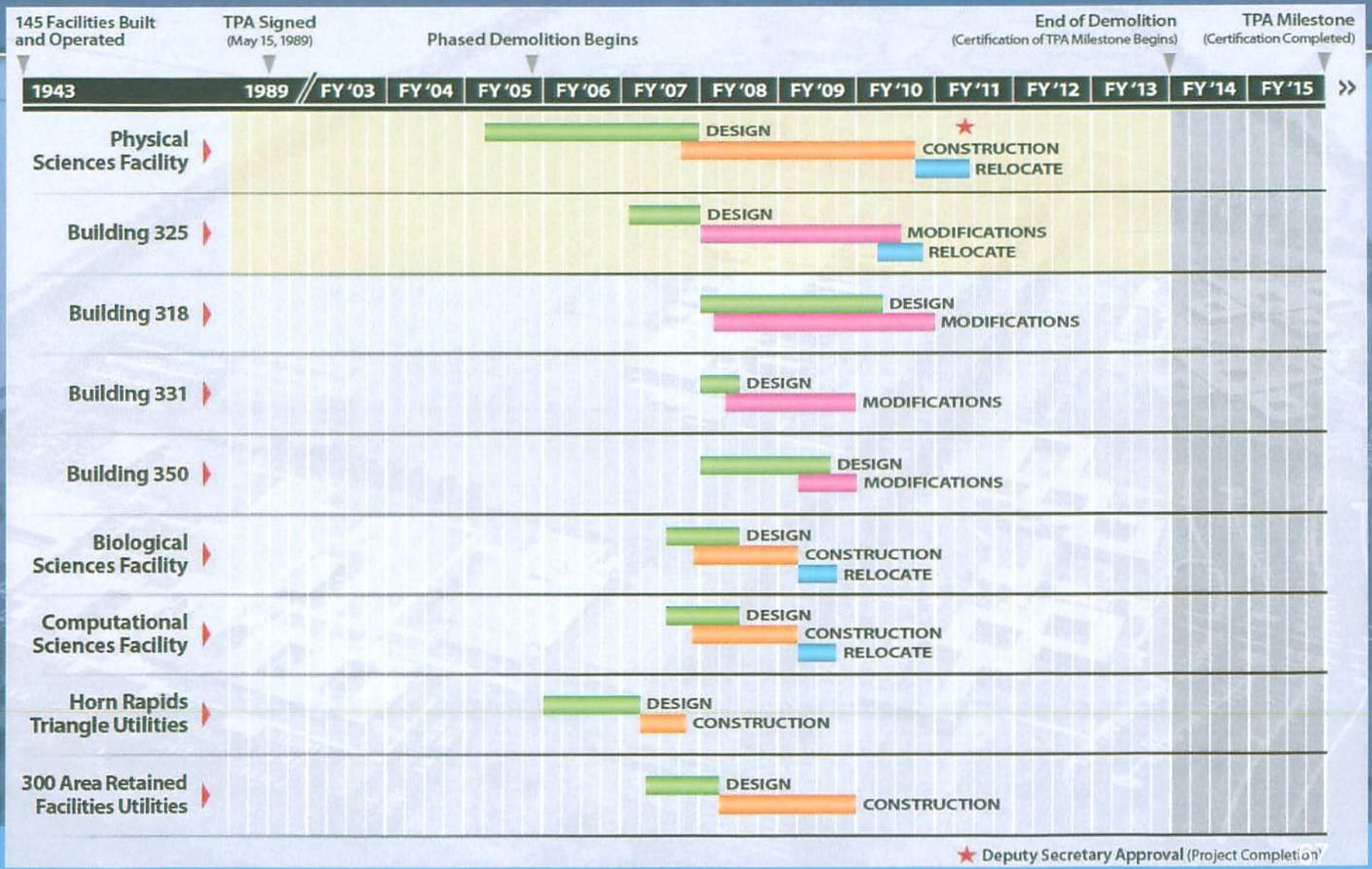


Facility Overview

Occupancy	180 persons
Gross Square Footage	75,600
Net Rentable Square Footage	74,000
Office Area	24,000 SF (net)
Computer Support Facility	5,000 SF (net)
Laboratories	14,000 SF (net)
Conference/Common Areas	8,000 SF (net)
Site size	8 acres
Parking	220

300 Area Replacement Facilities Chronology

Construction, Modification, Replacement & Disposition



300Area_Slide_4 (April 2007)

Overview of RFP

Beverly Harness
Contracting Officer
Procurement and Contracts Division
Oak Ridge Office

Richland, Washington
November 15, 2007

Contract Type

- Cost-Reimbursement, Performance Based Management and Operating Contract
- Up to 90 days Transition Period
- 5-Year Base Term
- Award Term Incentive (F.2)
  - May earn up to an additional 15 years beyond 5-year base term
  - Each award term extension is 12 months
  - If Contractor fails to earn award term 3 times—no longer eligible to earn any additional award term extension

Performance Fee

- The Offeror shall propose their fee under section B.3, as outlined in Volume 1, the Offer.
- The total available performance fee pool is outlined in section L.6(d)

Separate Corporate Entity and Performance Guarantee

- **Clause H.17**
  - Separate corporate entity set up solely to perform this Contract.
  - Performance guarantee required (Section J, Appendix F)
  - The parent or all member organizations shall assume joint and several liability for the performance of the contract.
- **Clause H.18**

  Responsible Corporate Official

Commitments to Community and Laboratory

- The Offeror shall propose their Corporate Commitment by indicating proposed resources to be provided to the Laboratory (H.41) as outlined in Volume 1, the Offer (L.3 and L.5, Subcriterion 2.c)

- The Offeror is expected to be a good community partner (I.117 Community Commitment)

Small Business

- The Offeror shall submit a Small Business Subcontracting Plan for Contract Year (FY 2009) (H.33) (L.3)
  - Shall contain all of the elements (Section I, Clause I.21)
  - PNNL RFP website provides a model Subcontracting Plan outline and instructions
  - Current SB Subcontracting Plan is available on website
- DOE Mentor-Protégé Program (H.35)
  - May be evaluated as part of the annual award fee plan (L.18)

Section K – General Instructions to Offerors

- The Offeror shall submit fully completed Section K, Representations, Certifications and Other Statements of Offerors
- The parent organization of each member of a teaming arrangement, if proposed, must separately complete, sign and submit Section K
- Foreign Ownership, Control of Influence (FOCI)
  - Section K-6, E-FOCI Electronic Processing (website: https://foci.td.anl.gov
  - Affirmative DOE determination is required as a condition of award
- Organizational Conflict of Interest Statement must be included

Section L – General Instructions to Offerors

- Offeror should submit the required number of paper copies and compact disks of each proposal Volume (I, II, and III) as indicated in Section L.2. Offeror shall also submit an electronic copy via the Industry Interactive Procurement System (IIPS). Shall be identical; paper copy will be official proposal.
- Volume I, Offer, must contain the Offeror's best terms as the Government intends to award without discussions.
- Any exceptions or deviations by the Offeror to the terms and conditions stated in this solicitation for inclusion in the resulting contract may make the Offer unacceptable for award without discussions.
- Volume II, Capabilities and Approach Proposal has 250 page limitation, with exceptions (See L.4).

Section L – General Instructions to Offerors (cont'd)

- Volume II consists of two elements: The Oral Presentation and Written submittal.

- Volume III, Cost and Fee proposal (L.6)
  - Consists of Annual Key Personnel Costs for the first 5 years
  - Transition Costs
  - Proposed Performance Fee for the initial 5-year term and the following five years of award terms

Section L – General Instructions to Offerors (cont'd)

- **Oral Presentation Procedures and Schedule (L.8)**
  - **Consists of Presentation and Problem Solving Exercise**
  - **Oral Presentation Slides submitted with the offer may not be altered and no additional visual materials will be accepted or evaluated.**

Alternative Proposal (L.15)

- Alternative proposals are not solicited, are not desired, and shall not be evaluated.

Solicitation and Amendment Distribution (L.17)

- **DOE Industry Interactive Procurement System (IIPS) will be the official distribution method for this solicitation.**
  - **All amendments and any other official communications from the Government regarding this solicitation shall be posted through IIPS.**
  - **Offerors are responsible for checking the website often for any solicitation amendments.**

Schedule

Question and Comment Period	Ends December 10, 2007
Issue Final RFP	Late 2nd or early 3rd quarter of FY 2008
Proposals Due	30 to 45 days after issuance of RFP
Oral Presentations	~14 calendar days after receipt of proposals to be held in Oak Ridge,TN
Selection	TBD
Contract Award	Fall of 2008
Contract Transition	Up to 90 days after effective date of award

Statement of Work
Pacific Northwest National Laboratory Management & Operating Contract

Based on pages C-6 to C-19 of the Draft Request for Proposals

Roland F. Hirsch
Office of Biological & Environmental Research
Office of Science

Richland, Washington
November 15, 2007

General

- Contractor provides
  - Intellectual leadership
  - Management expertise
- Contractor to accomplish research mission and roles assigned by DOE
- Statement of Work provides a broad framework and general scope
  - Specific projects and programs can change with time
- Contractor is to protect environment and ensure safety and health of employees at the Laboratory
  - Implement an Integrated Safety Management System that;
    - Includes an Environmental Management System and
    - Follows DOE orders

Mission & Major Programs

- **Laboratory mission:**
  - Perform highest quality multi-disciplinary research
  - Develop, maintain and operate unique national experimental facilities
  - Educate and train future generations of scientists and engineers
  - Transfer knowledge and technological innovations
- **Program sponsors:**
  - DOE Office of Science
  - DOE National Nuclear Security Administration
  - Additional DOE sponsors
  - Other Federal agencies, including:
    - Department of Homeland Security
    - Department of Defense
    - Nuclear Regulatory Commission
    - Environmental Protection Agency
    - National Institutes of Health

Core Competencies and Business Lines

- **Core competencies:**
  - Microbial and cellular biology
  - Environmental sciences
  - Analytical and interfacial chemical and materials sciences
  - Radiological sciences
  - Information analytics and visualization
  - Sensing and measurement technologies and systems
- **Business lines:**
  - Foundational science
  - Energy science and technology
  - National and homeland security and technology
  - Environmental science and technology

Other Programs and Activities

- Science and mathematics education programs and cooperation with colleges and universities
- Mission related partnerships with:
  - Academic research institutions
  - Other agencies
  - Other DOE laboratories
  - The international scientific community
  - The private sector
- User facility operations, in particular the Environmental Molecular Sciences Laboratory (EMSL)

Other Programs and Activities (cont'd)

- **Laboratory-Directed Research and Development (LDRD)**

- **Other activities:**
  - Providing laboratory facilities for personnel of public and private institutions
  - Conduct of research and development for non-DOE sponsors
  - Dissemination and publication of unclassified scientific and technical data
  - Furnishing scientific and technical assistance to DOE and other organizations

Management and Operation of the Laboratory

- Strategic and institutional planning
- Protection of workers, the public and the environment
- Safeguards and security (SAS) and emergency management
- Cyber security management
- Nuclear operations
- Project management
- Laboratory facilities and infrastructure
- Energy efficient facility operations and infrastructure
- Environmental permitting
- Waste management
- Business management
- Richland services
- Other support

OFFICE OF SCIENCE
U.S. DEPARTMENT of ENERGY

Contract Transition

Martha Kass

Office of Assistant Manager for Science

Oak Ridge Office

Richland, Washington

November 15, 2007

Contract Transition

The purpose of the Transition Period is to allow the time for the Selected offeror to complete those actions necessary prior to assuming responsibility for the successful management and operation of the Pacific Northwest National Laboratory.

Contract Transition

- Activities and requirements are addressed in the draft RFP Sections H, Section L, and Section M.
- The transition period will begin on the effective date of the contract.
- Offerors may propose a Transition Period of up to 90 days.
- The offeror's Transition Plan will be evaluated as part of the proposal package.
- The cost of Transition will be on a cost reimbursement, no fee basis. The offer is to propose a limit on government cost and will be cost evaluated.

Areas to be addressed during Transition include (see H.46):

- Management of Scientific and Technical Programs
- Facility Operations, including nuclear operations, ES&H, etc.
- Management Systems
- Existing Agreements and Regulatory Requirements, including subcontracts and permits
- Property and SNM Inventory and Controls
- Intellectual Property
- Human Resources and Workforce Transition

Workforce Definitions

- **Incumbent Employees: Regular employees who work at least 20 hours per week under contract DE-AC05-76RL01830 as of the last day of transition, with the exception of Discretionary Incumbent Management Personnel. see H.22(e)(1)**
- **Discretionary Incumbent Management Personnel: Employees who occupy positions contained in Section L, Appendix 4, List A., see H.21(b)**
- **Non-Incumbent Employees: New Hires after contract transition. see H.22.(e) (2)**

As of 9/07, PNNL has ~4,000 Employees

Incumbent Employees

- Selected offeror shall offer employment to all Incumbent Employees, see H.21
- Equivalent Pay for at least the first year, see H.22 (e) (1)
- Comparable Benefit Package, see H.22 (e) (1)
- Comparability of benefit package shall be determined by the Contracting Officer in his/her sole discretion, see H.22 (e) (1)
- The Contractor shall carry over the length of service credit and leave balances accrued, see H.22 (e) (B)

Current Employees (cont'd)

- **Section L, Appendix 4, List B Employees**
  - Selected offeror shall offer employment to all Incumbent Employees, see H.21(a)
  - Any changes in Job position or classification shall be accompanied by a commensurate alteration in compensation, see H.21 (b) (1)
- **Discretionary Incumbent Management Personnel**
  - Selection L, Appendix 4, List A Employees
  - Employment offer is at offeror's sole discretion, see H.21 (b)
  - Any changes in Job position or classification shall be accompanied by a commensurate alteration in compensation, see H.21 (b) (1)

Benefit Plans

- Contractor shall become a sponsor of the existing pension and other benefit plans, or comparable successor plans, including other post-retirement benefit (PRB) plans, for incumbent and retired plan participants, with responsibility for management and administration of the plans, see H.22 (e) (1)
- Pension plans must be separate and distinct from any other pension plan which provides credit for service not performed under a DOE cost-reimbursement contract, see H.22 (g) (4)
- The current PNNL Pension Plan is part of a corporate pension plan.

Benefit Plans (cont'd)

- Pension plans must meet Internal Revenue Code and the Employee Retirement Income Security Act of 1974, see H.22 (g) (1)
- Must recognize prior PNNL service credit, see H.22 (e) (1)

Non-Incumbent Employees

- Pay and benefits must be competitive with the industry from which new employees are recruited, see H.22 (e) (2)
- Successful Offeror will provide a Market-Based Retirement Plan that is competitive with the industry from which new employees are recruited, see H.22 (e) (2)
- Medical Benefits must be competitive with the industry from which new employees are recruited, see H.22 (e) (2)
- Proposed Key Personnel costs are subject to DOE review and approval for reasonableness after contract award, see L.6 (b)

Capabilities and Approach Criteria
Pacific Northwest National Laboratory
Management & Operating Contract

Based on Section M of the Draft Request for Proposals

Frances Keel

Office of Nonproliferation Research and Development

National Nuclear Security Administration

Richland, Washington

November 15, 2007

Capabilities and Approach Proposal

- **Criterion 1: Management of Science and Technology 600**
  - Subcriterion 1a – Science and Technology Programs (250)
  - Subcriterion 1b – Facility Revitalization and Replacement (150)
  - Subcriterion 1c – Laboratory Management and Operations (150)
  - Subcriterion 1d – Relevant Experience (50)
- **Criterion 2: Leadership 350**
  - Subcriterion 2a – Key Personnel (200)
  - Subcriterion 2b – Organization (50)
  - Subcriterion 2c – Corporate Commitment (50)
  - Subcriterion 2d – Transition Plan (50)
- **Criterion 3: Past Performance 50**

Total Available Points 1000

Capabilities and Approach Proposal

- **Criterion 1: Management of Science and Technology** **600**
  - **Subcriterion 1a- Science and Technology Programs** **(250)**
    - Plan for Future Research Programs and Facilities
    - Effective and Efficient Management of Programs and Projects
    - Technology Transfer and Cooperative Partnerships
    - Plan for Attracting and Retaining a Diverse Staff
  - **Subcriterion 1b – Facility Revitalization and Replacement** **(150)**
    - Plan for Design and Integration of New and Existing Facilities
    - Plan for Constructing New Facilities and Upgrading Existing Facilities
    - Plan for Minimizing Interruptions to On-going Programs During Facility Construction and Upgrades

Capabilities and Approach Proposal

- **Criterion 1: Management of Science and Technology 600**
  - **Subcriterion 1c – Laboratory Management and Operations (150)**
    - Laboratory Stewardship
    - Business Management
    - Safeguards and Security and Emergency Management Programs
    - Cyber Security Management Program
    - Environment, Safety and Health
  - **Subcriterion 1d – Relevant Experience (50)**
    - National and International Recognition
    - Relevant Experience with Laboratory Operations

Capabilities and Approach Proposal

- **Criterion 2: Leadership** — **350**
  - **Subcriterion 2a- Key Personnel** — **(200)**
    - **Laboratory Director**
      - Credentials
      - Management Skills
      - Ability to Effective Communicate with Stakeholders
      - Understanding of DOE
      - Written Commitment to Serve a 5-year term
    - **Other Key Personnel**
      - Credentials
      - Understanding of Roles and Responsibilities
      - Approach to Solving Scientific and Business Management Problems
      - Ability to Communicate Effectively
      - Understanding of DOE Functions
      - Written Commitment to Serve a 3-year term
    - **Responses to Problem Solving Exercises**
      - Additional skills will be evaluated during the exercise

Capabilities and Approach Proposal

- **Criterion 2: Leadership (cont'd)** **350**
  - **Subcriterion 2b- Organization** **(50)**
    - Plan and Execute the Statement of Work
    - Achieve World-Class Excellence in User Facility Operations
    - Support Best in Class Operation and Business Management
    - Assure Effective Communication with Stakeholders
    - Enhance Productivity at PNNL
    - Minimize Overhead/Indirect Cost
    - Assure Flexibility to Respond to Changing Mission Needs

Capabilities and Approach Proposal

- **Criterion 2: Leadership (cont'd)** **350**
  - **Subcriterion 2c- Corporate Commitment** **(50)**
    - Expected Value Added By Parent Organization(s)
    - Strategy for Providing Corporate Oversight of PNNL
    - Overall Involvement of Parent Organization(s)
  - **Subcriterion 2d- Transition Plan** **(50)**
    - Plan for Transition of Work and Workforce

Capabilities and Approach Proposal

- **Criterion 3: Past Performance** **50**
  - **During the Last Five Years**
  - **Relevant Contracts (size, complexity, and scope)**
  - **If without a Record of Past Performance; evaluation will be neither favorable nor unfavorable**

Pacific Northwest National Laboratory Leases

Nancy Carnes
Assistant Chief Counsel for Environment
Oak Ridge Office

Richland, Washington
November 15, 2007

PNNL Facilities

- All Facilities and Equipment Currently Utilized are Being Made Available To Offerors

- A summary of the leases and other agreements are available on the PNNL RFP website at www.oakridge.doe.gov/external/seb-pnnl

DOE LEASES OF BATTELLE-OWNED FACILITIES

- **Two leases**
  - Uncontaminated facilities
  - Radiologically Contaminated facilities
- Together comprise all Battelle-owned facilities in Richland and Sequim except for LSLII
- Effective date - conclusion of transition period to new M&O contract

DOE LEASES OF BATTELLE-OWNED FACILITIES

- **Term - five year base + three 5-year options**

- **Government right to terminate**
  - **Absolute right to terminate either or both leases in their entirety on 365 days written notice**
  - **In addition, the government may terminate up to 5% (19,538 sq. ft.) of total leased space per year after one year of lease effectiveness with 365 days written notice**
  - **Cannot terminate part of any one building**
  - **Unused portion of 5% may be carried over to future years**

SERVICE AGREEMENT

- To be negotiated by DOE and Battelle -- at which time it will become part of the lease.
- The purpose of the Service Agreement is to have a formal agreement to allow for reimbursement by the Lessee to Lessor of the cost of operating and maintaining the facility.
- At the end of each lease, a reconciliation is done with Lessee either owing additional cost or receiving a credit.
- Includes a maintenance schedule for facilities:
  - The parties agree to execute a mutually acceptable building maintenance/improvement/modification and service schedule at least 6 months prior to the start of any of the 5-year facility lease terms.
- Lessor is responsible for:
  - Building maintenance per agreed-to-schedule
  - Grounds
  - Capital improvements.

ASSIGNMENT OF BATTELLE-LEASED FACILITIES

- All Battelle leased facilities will be assigned to the new contractor except for Battelle Seattle Research Center and Battelle Washington, DC Office.
- DOE may elect to sublease these facilities.

RADIOLOGICALLY CONTAMINATED FACILITIES

- DOE has acknowledged that it has responsibility for radioactive contamination in the Battelle owned facilities that occurred as a result of work performed for DOE under the M&O (1830) contract with DOE or its predecessors.

- DOE and Battelle have agreed to work jointly with state regulatory agencies on any licensing issues pertaining to the facilities, and to facilitate deferral of any D&D of the facilities until such time as the facilities are no longer utilized by DOE and its M&O contractor.

GOVERNMENT PURCHASE OF BATTELLE-OWNED EQUIPMENT

- The government has agreed to pay net book value for the equipment and to accept the equipment "as is and where is."
- The transactions associated with the Equipment Agreement will become effective on the day after completion of the transition period for the new contract.

GOVERNMENT LEASE OF BATTELLE-OWNED AIRPLANE

- DOE and Battelle have signed an "Agreement in Principle Regarding Lease of Airplane." Through this proposed Lease, DOE intends to make this airplane available for future PNNL programmatic research use.

- The lease agreement will become effective on the day after completion of the transition period for the new contract.

Pacific Northwest National Laboratory Technology Transfer

Emily Schneider
Assistant Chief Counsel for Intellectual Property
Oak Ridge Office

Richland, Washington
November 15, 2007

Mission and Major Programs

- Draft RFP states as mission goal:
  - To transfer knowledge and technological innovations and foster productive relationships among Laboratory research programs, universities, and industry in order to promote national economic competitiveness.

Mission Related Partnerships

- Cooperative Research and Development Agreements (CRADAs)
- Work for Others (WFOs)
- User Facility Agreements
- Direct Assistance Programs
- Employee Loan Programs
- MOC, MOU, MOAs
- Licensing of Intellectual Property
- Privately Funded Technology Transfer (if approved)

Collaborations and Sponsored Research

Agreement	Description	Information Protection	Intellectual Property
CRADAs	A partnership with industry for collaborative R&D.	CRADA generated data may be protected for up to 5 years.	Each party retains title to its own inventions. An option for a royalty-bearing exclusive license is granted to the industry partner in a field of use for PNNL inventions. Other conditions may apply.
WFOs (non-federal)	Sponsor provides funding to PNNL for the performance of R&D or services; requires uniqueness of facilities or services (no competition with private sector).	Data rights are negotiable, ranging from fully proprietary to both parties can use all data without restrictions. Other conditions may apply.	Title to PNNL inventions normally goes to Sponsor under DOE class waiver. Exceptions must be approved by DOE and depend on type of work funded and type of funds.
User Agreement	User gains access to certain unique PNNL designated facilities for R&D.	Proprietary and Nonproprietary Agreements.	A DOE class waiver provides that inventions go to the User.

Cooperative Research and Development Agreements

- An agreement between Contractor and at least one non-Federal Party under which the Government, through the laboratory, provides personnel, services, facilities, equipment, intellectual property, or other resources with or without reimbursement (but not funds to non-Federal parties
- Non-Federal parties provide funds, personnel, services, facilities equipment, intellectual property, or other resources toward R&D efforts consistent with the missions of the Laboratory

Work for Others

- Contractor may perform work for non-DOE entities (sponsors) on a fully reimbursable basis
- Contractor must have formal policies and procedures
- Must not perform activities that would place it in direct competition with the domestic private sector
- Cannot respond to solicitations from other Federal Agency or non-Federal organization that involves direct comparative competition, either as an offeror, team member or subcontractor to offeror
- Can respond to BAA, FA, etc., from other Federal Agencies, when selection is based on merit or peer review, involves basic or applied research, and a response does not result in direct, comparative competition
- If private sponsor is receiving federal funds, intellectual property terms of contract apply

Privately Funded Technology Transfer (PFTT)

- Means the prosecuting, maintaining, licensing, and marketing of inventions which are not owned by the Government (and not related to CRADAs) when such activities are conducted entirely without the use of Government funds
- Applicable to Non-profit Entities
- H.46 Activities During Contract Transition-A PFTT program may be proposed during transition or after award

Privately Funded Technology Transfer (PFTT)

- The proposed PFTT program will be funded by Contractor to complement the existing Government Funded Technology Transfer (GFTT) program with the objective of enhancing commercialization of technologies developed at PNNL
- Currently in place at other DOE Labs: PNNL, ORNL, Argonne, Brookhaven, and Ames
- During transition, DOE and the incumbent contractor, negotiate rights to PFTT inventions. Successor contractor retains royalty-free Government Use license.

Other Mechanisms

- Licensing
  - Patents
  - Software
    - Copyrighted
    - Open Source
- Material Transfer Agreements
- Most TT agreements require:
  - U.S. Competitiveness
  - Fairness of Opportunity

OFFICE OF SCIENCE
U.S. DEPARTMENT of ENERGY

CLOSING REMARKS

Beverly Harness
Contracting Officer
Procurement and Contracts Division
Oak Ridge Office

Richland, Washington
November 15, 2007

Closing Remarks

- **The SEB Welcomes your input.**
  - **Submit any comments or questions you have today on the provided index cards and place them in the box at the registration table or provide them to individuals at the exits.**
  - **Any comments or questions that you may have regarding the Draft RFP after today, please submit through IIPS. All comments and questions must be submitted no later than 3:00 p.m. EST, December 10, 2007.**
  - **All responses will also be posted on IIPS and the PNNL RFP website. The identity of the organization and/or individual submitting questions will not be revealed.**

Closing Remarks (cont'd)

- Additional Information regarding the RFP as well as other information relating to the overall procurement effort is, and will be, posted on the PNNL RFP website at: www.oakridge.doe.gov/external/seb-pnnl.
- For those pre-registered for the site tour, you must be back at the registration desk here at the Richland Federal Building Lobby/Auditorium no later than 12:30 p.m.
  - Do not bring any prohibited items with you.
  - Remember to bring the required photo ID with you.

Closing Remarks (cont'd)

- In closing, we would like to thank you for attending and please drive safely when leaving today.