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USSP POTAS Coordinators Meeting

Raymond Diaz

*Presented at the Institute of Nuclear Materials Management (INMM) Annual Meeting
Atlanta, GA
July 24-28, 2016*

July 2016

Nonproliferation and National Security Department

Brookhaven National Laboratory

**U.S. Department of Energy
USDOE National Nuclear Security Administration (NNSA),
Office of Defense Nuclear Nonproliferation (NA-20)**

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USSP POTAS Coordinators Meeting

INMM – Atlanta Marriott Marquis

Atlanta, Georgia

Room: M103

July 25, 2016

6:00 PM – 7:00 PM

*Ray Diaz, International Safeguards Project Office
Brookhaven National Laboratory*

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a passion for discovery



Outline

- § United States Support Program (SSTS & ISPO)
- § IAEA SG – Initiator of Requests to the USSP
- § How the USSP Processes IAEA Requests
- § USSP Strategic Objectives
- § POTAS Funding History and Work Funded
- § Recruitment for IAEA Safeguards Positions
- § Electronic Country Clearance (eCC)
- § POTAS Communication Guidelines
- § ISPO website: <http://www.bnl.gov/ispo/>

Subgroup on Safeguards Technical Support (SSTS)

- Oversight of the U.S. Support Program
- Determine USSP funding decisions for IAEA requests

SSTS Members:

1. Chair: **Kevin Veal**, Department of Energy (**Martie Larson** – alternate)
2. Department of State, **Peter Sprunger**, (Demetrius Davis – alternate)
3. Department of Defense: **Craig Campbell**, (James Killian - alternate)
4. Nuclear Regulatory Commission: **Santiago Aguilar**, (Hilary Lane - alternate)

Brookhaven National Laboratory

International Safeguards Project Office

Raymond Diaz - Project Office Head
Teresa Montuori - Administrative Support

New York

Joe Carbonaro - Task Monitor
Josh Tackentien - Task Monitor
(Next Liaison Officer)
Ron Webster – Task Monitor

Deborah Johnson - Financial
Specialist

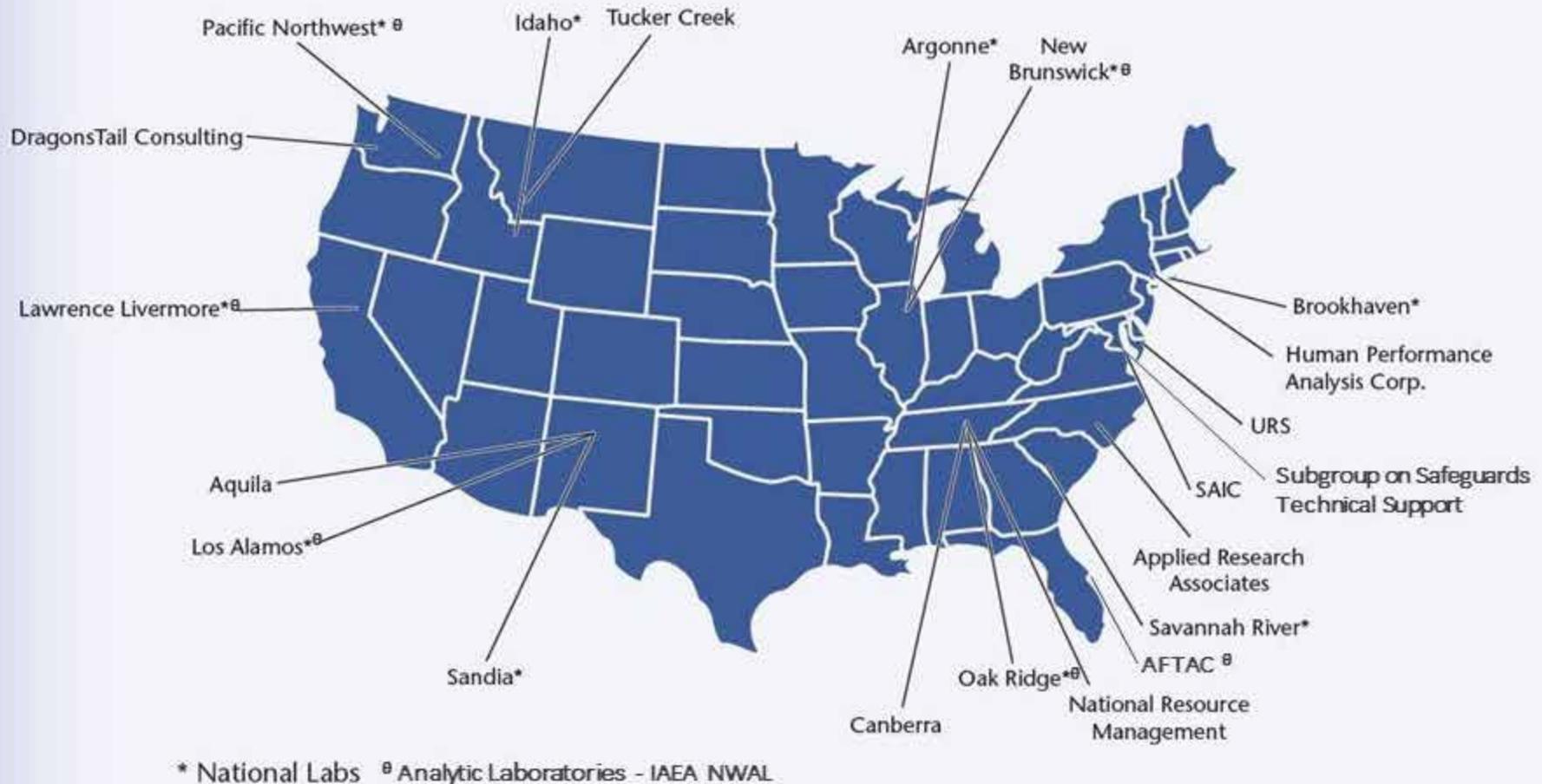
Vienna

Barbara Hoffheins - Liaison Officer
(Returning to BNL in April 2017)

POTAS US Laboratory Coordinators

ANL (Argonne National Laboratory) –	Peter Heine
BNL (Brookhaven National Laboratory) –	Lisa Toler
DOE NSC (DOE National Security Campus) –	Ian Bradt
INL (Idaho National Laboratory) –	Jeff Sanders
LANL (Los Alamos National Laboratory) –	William Geist
LLNL (Lawrence Livermore National Laboratory) –	Young Ham
NBL (New Brunswick National Laboratory) –	Peter Mason
ORNL (Oak Ridge National Laboratory) –	Michael Whitaker
PNNL (Pacific Northwest National Laboratory)–	John Schweighardt
SNL (Sandia National Laboratories) –	Zoe Gastelum
SRNL (Savannah River National Laboratory) –	Lindsay Sexton
STL (Special Technologies Laboratory) –	Steve Koppenjan

Work Performed by U.S. National Labs and Contractors



§ USSP has funded more than 80 U.S. contractors



International Atomic Energy Agency

DEPARTMENT OF SAFEGUARDS

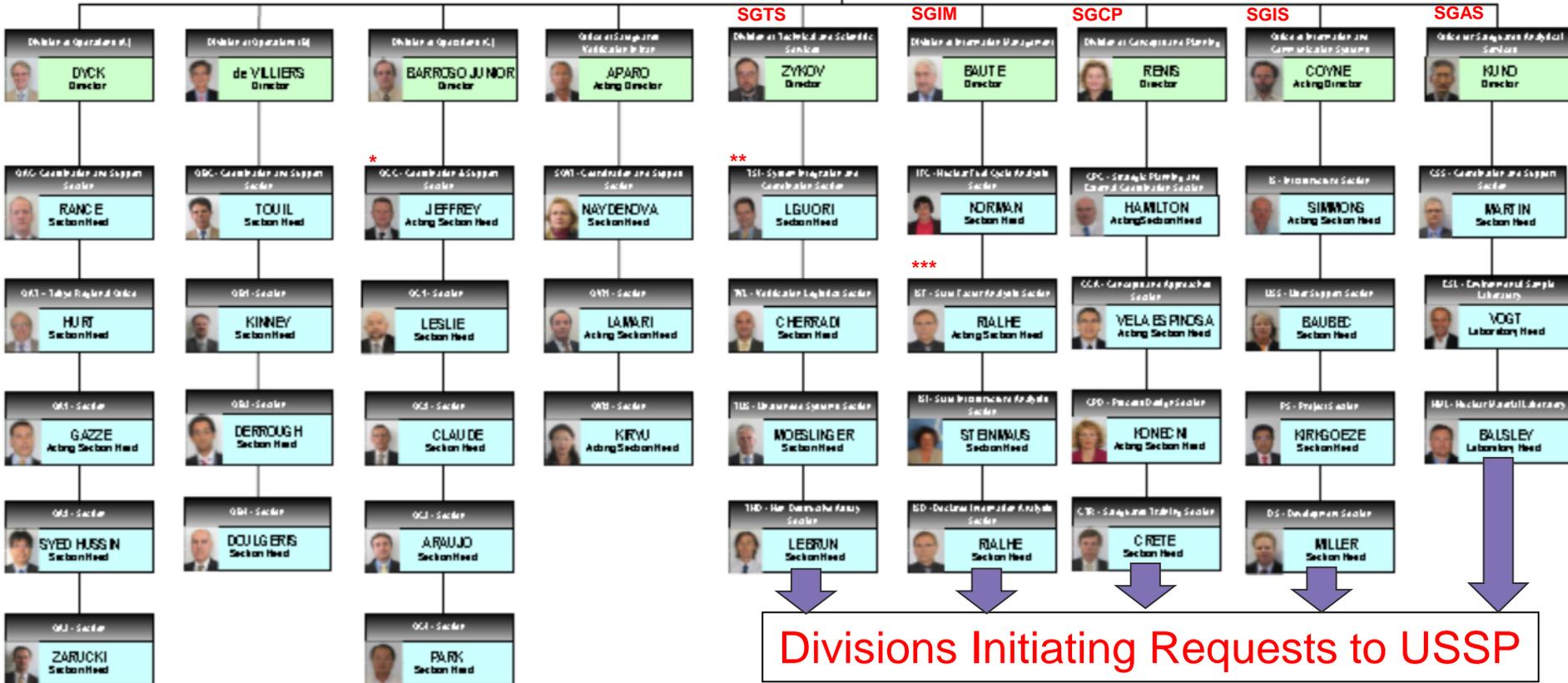
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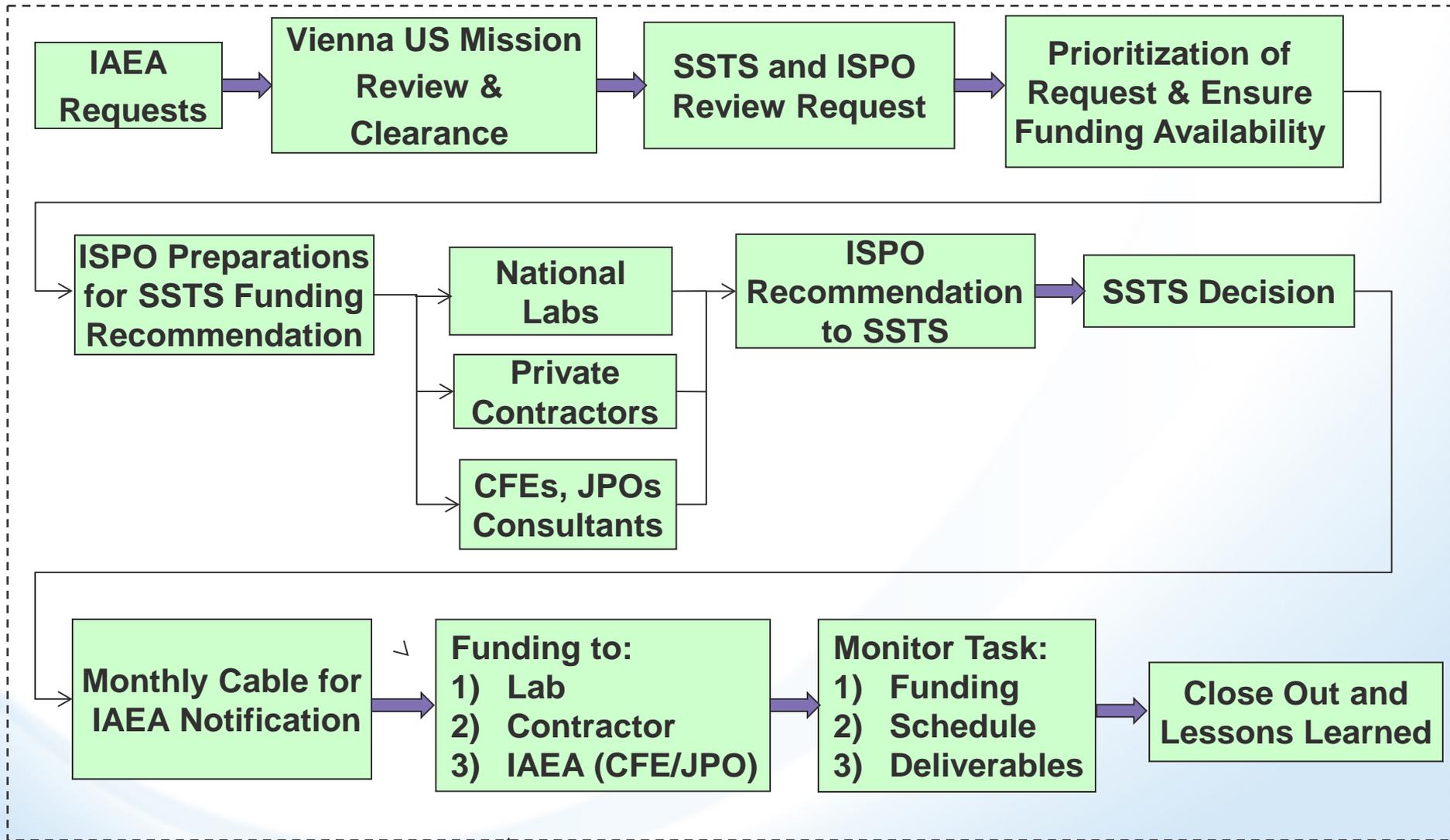
Inspectorate - Operations A, B & C

SG Iran Verification



* Cesare Liguori – OCC Section Head
 ** Ken Baird – Acting TSI Section Head
 *** Brian Aubert – SFA Section Head

How the USSSP Processes IAEA Requests



ISPO Management of IAEA Requests

§ **IAEA Outstanding Request List (ORL):**

- List of all pending IAEA requests including SP-1's, CFE/JPO, and Letter Requests
- Review, prioritize and update ORL weekly

§ **Monthly Action Cable:**

- SP-1 and letter request decisions are documented in an Action Cable to the IAEA

§ **POTAS Funding Forecast:**

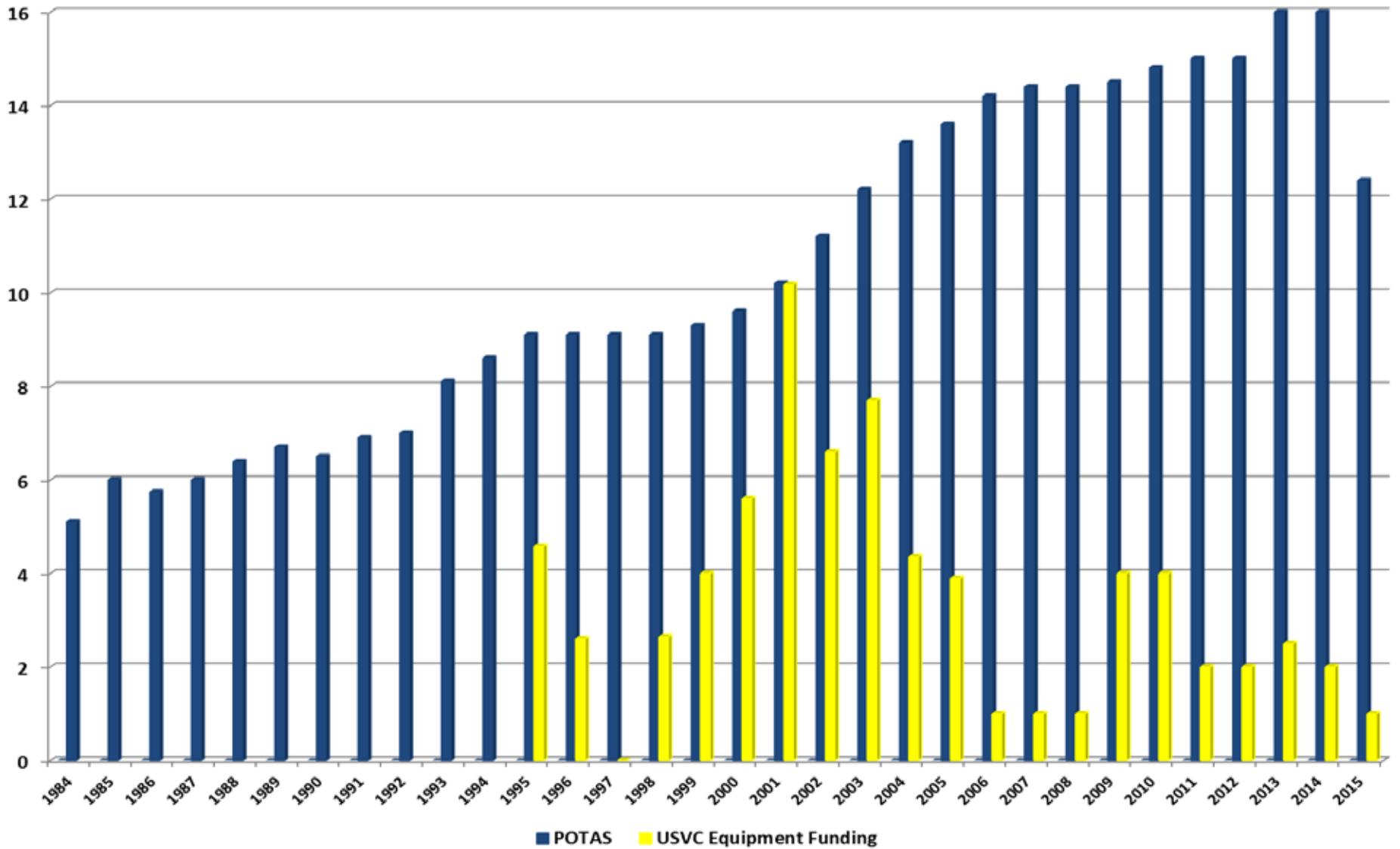
- Used to prioritize new requests, recurring tasks, and travel support requests (ex: Training Courses, CFE/JPO extensions)
- Reviewed and updated “real time” as SSTS funding decisions are made and new IAEA requests are received
- Ensure funding availability prior to soliciting proposals

USSP Strategic Objectives

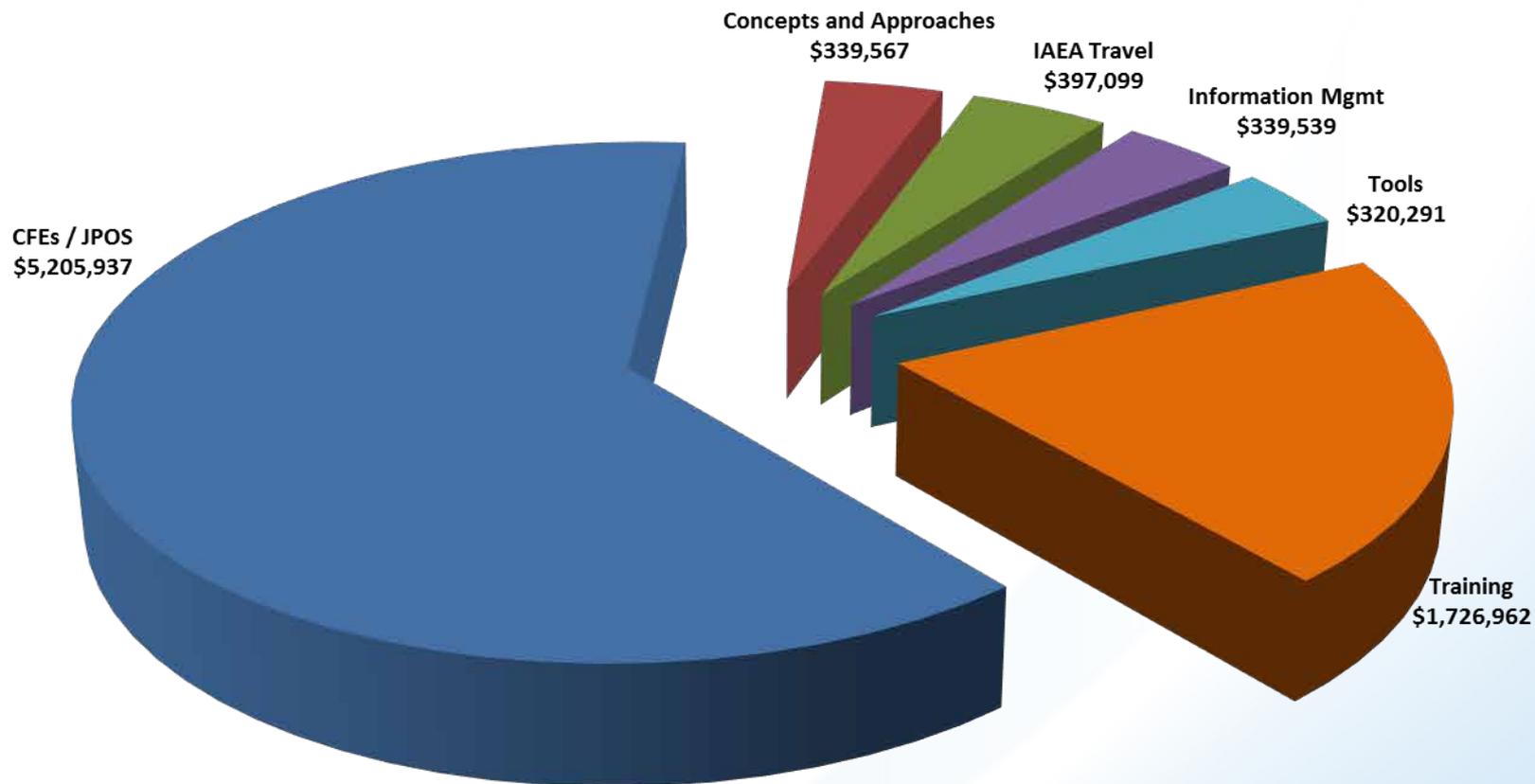
Used to assist in prioritizing IAEA requests (listed in random order)

- **Training:** Ensure IAEA staff have the necessary expertise
- **Tools:** Ensure the IAEA has the necessary tools to implement safeguards verification
- **Concepts and Approaches:** Help the IAEA develop effective safeguards approaches
- **Information Management and Security:** Equip the IAEA to acquire, analyze, and manage information securely
- **Human Resources:** Place highly qualified personnel in IAEA positions
- **Quality Management:** Promote a culture of QM improvement at the IAEA
- **Communication:** Improve communications practices between IAEA and its stakeholders

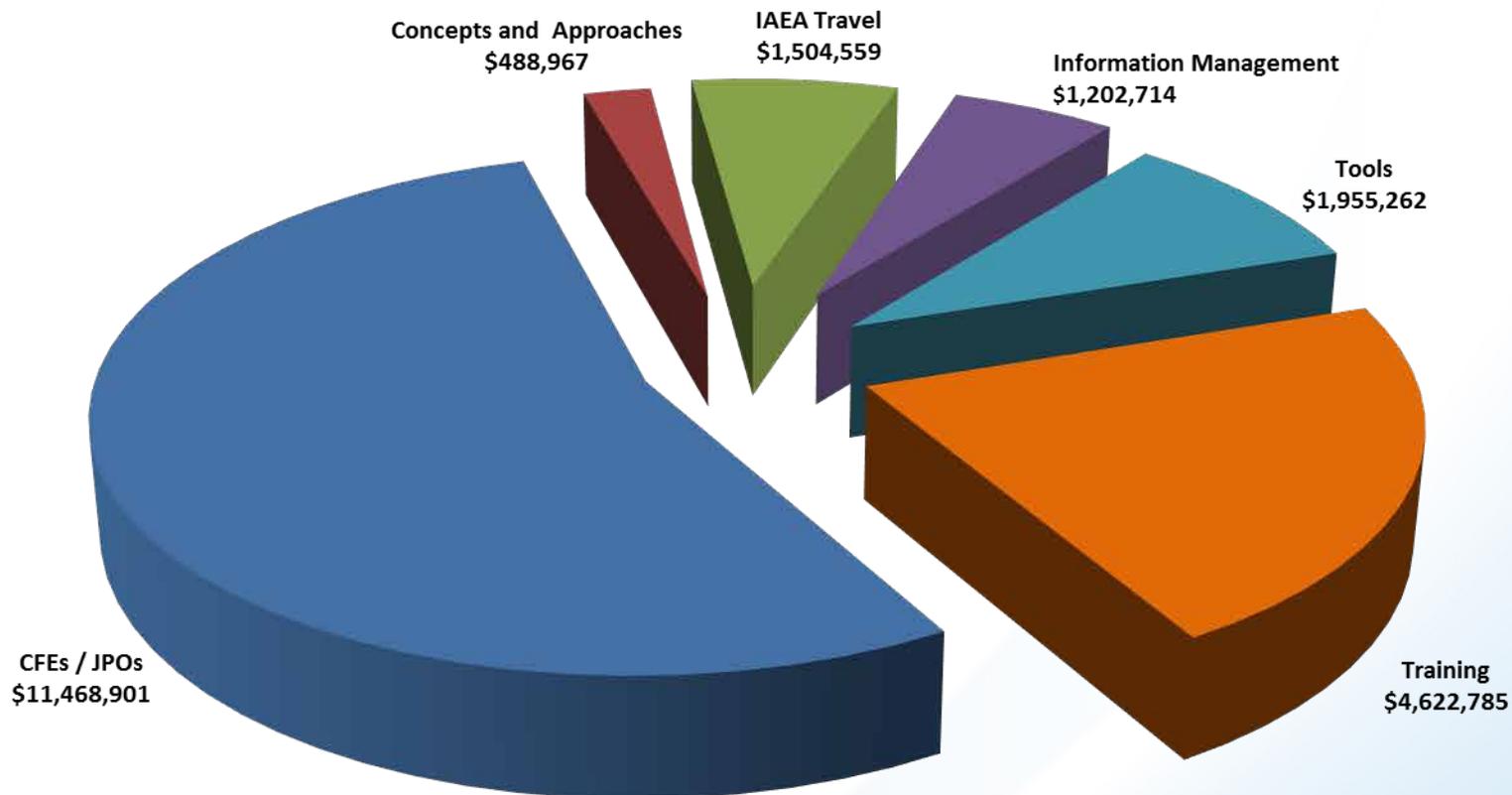
POTAS & USVC Equipment Funding 1984 - 2015 (\$M)



All POTAS Funding Approved by Priority (CFEs / JPOs separated) CY 2015 (\$8.33M)



All POTAS Funding Approved by Priority (CFEs / JPOs separated) CY 2013 - 2015 (\$21.2M)



USSP FY 16 Annual POTAS Budget: \$12.4 Million

Funding Over **80 Active Tasks/Subtasks**

FY16 Estimated Funding Expenditures:

- Training - \$2.1 million
- CFEs (11) and JPOs (8) - \$5.9 million

Typical items addressed with remaining funding:

- Consultants (ex: Open Source)
- Destructive Analysis & Environmental Sampling
- Concepts and Approaches
- Equipment and Software Development

Some Active USSP Funded Projects

- A.274 – Inter-Comparison Exercise of Pu & U Isotopics Using Medium Resolution Gamma Ray Spectrometers
- A.290 - On-Line Enrichment Monitor (OLEM)
- A.293 - Qualification of SRNL as an NWAL Nuclear Lab
- A.294 - Unattended Gamma Emission Tomography (UGET)
- A.298 - Unattended Cylinder Verification Station (UCVS)
- A.305 – Small-Scale Scrubber for IAEA On-Site Lab at RRP (Japan)
- ‘B’ Tasks – 10 Recurring IAEA Inspector Training Courses

Future IAEA SG Needs

§ Suggest reviewing IAEA 2016 – 2017 Development and Implementation Support (DIS) Program for Nuclear Verification

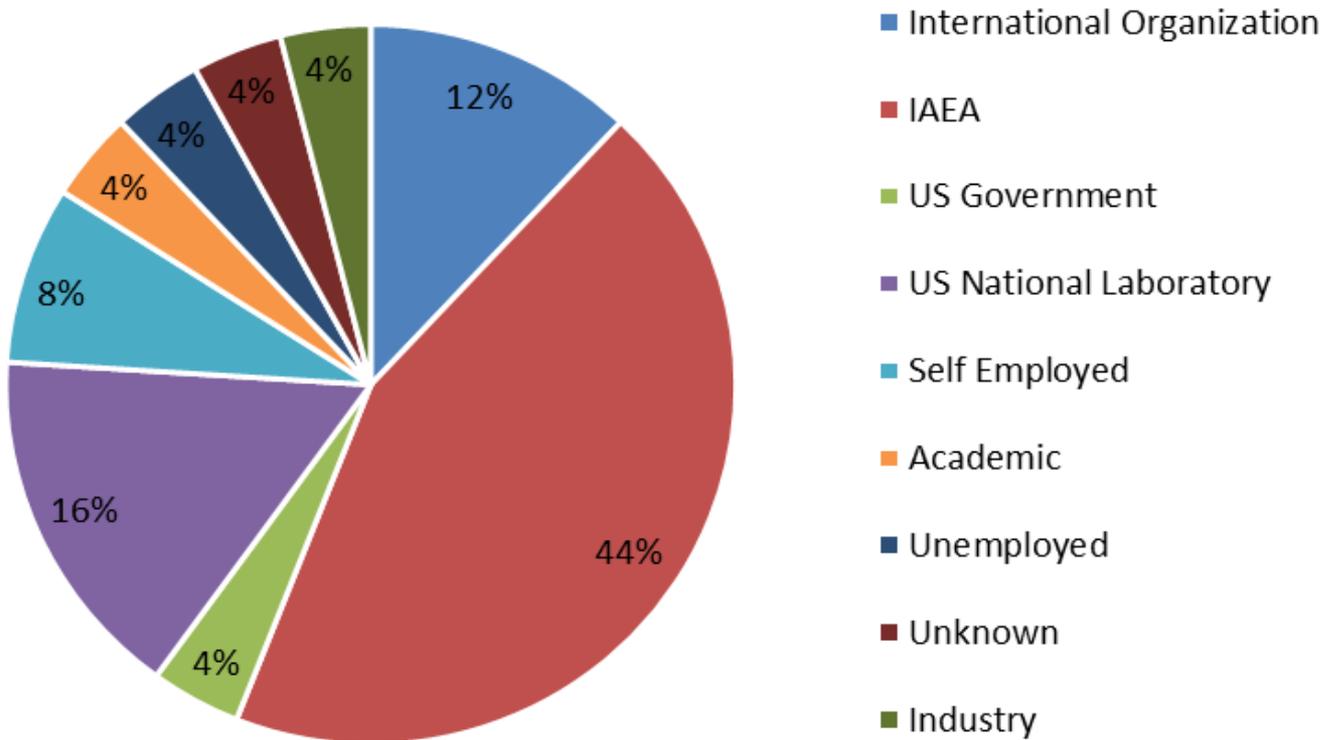
- Lists Dept. of SG short term (2 yr) directions and key objectives by subject area
- This short term work supports IAEA objectives of their:
 - Long Term Strategic Plan (2012 – 2023)
 - Medium Term Strategy (2012 – 2017)
 - Long Term Research & Development Plan (2012 – 2023)

§ IAEA requests are based on current needs which change

Recruitment for IAEA SG Positions

- Focus on recruitment for IAEA SG Staff Positions
- Respond to requests for CFE's and JPO's
- Post job openings on ISPO Website
(<http://www.bnl.gov/ispo/>)
- Search for qualified candidates using recruitment websites
- Assist selected candidates with transition to work in Vienna
- Please sign up on “Job Alerts” on the ISPO website
(<https://www.bnl.gov/ispo/job-alerts/>) for CFE/JPO/IAEA Staff notification emails.

Employer Immediately Following JPO Assignment



Electronic Country Clearance (eCC)

- Used to obtain DOE approval of USSP funded Vienna foreign travel
- Labs –Input Data into the Foreign Travel Management System (FTMS)
- Contractors - Provide eCC information to ISPO (Teresa Montuori – (tmontuori@bnl.gov) who inputs data into FTMS
- US Mission approves eCC with assistance of ISPO Liaison Officer (HoffheinsB@state.gov)
- eCC must be in compliance with procedure located on ISPO website: <http://www.bnl.gov/ISPO/country-clearance.php>
- eCC needs to be submitted into FTMS at least 45 days prior to travel
- US Passports must be valid for 60 days beyond trip end date

POTAS IAEA Communication Guidelines

- All communications with the IAEA go through ISPO
- If the IAEA contacts you directly regarding a non funded USSP project, indicate they need to go through the US Mission to International Organizations in Vienna (UNVIE)
- Include ISPO task monitor and Barbara Hoffheins on pre-approved IAEA communications for funded POTAS work
- Do not attempt to “Sell” new projects to the IAEA that have not been cleared by the USSP and UNVIE
- Let the ISPO task monitor know if we need to set up a teleconference call or VTC with the IAEA to resolve project issues

ISPO Website - <http://www.bnl.gov/ispo/>



- § **Advertise IAEA requests**
- § **US citizen recruitment (IAEA staff, CFE, JPO)**
- § **Information to assist US citizens planning to work at the IAEA**

END OF PRESENTATION

AND

THANK YOU FOR YOUR ATTENDANCE

Lab/Contractor Feedback and Questions