



Australian Government
Australian Radiation Protection
and Nuclear Safety Agency



Preparing for an

ORPAS Mission

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ORPAS Mission to Sri Lanka

- Sri Lanka sent request for ORPAS to IAEA in March 2019
 - Request from Sri Lanka Atomic Energy Board
 - Regulatory Authority is Sri Lanka Atomic Energy Regulatory Council
- Team Leader selected in March 2019
- Pre-ORPAS mission in July 2019
- ORPAS Mission November-December 2019

(This is much tighter timeline than the Malaysian ORPAS Mission)

Purpose of Pre-ORPAS Mission

The objective of the assignment, a pre-ORPAS mission, is to determine the feasibility, scope and terms of reference of the full ORPAS mission as requested by the Member State:

- To liaise with the host organization and agree a program of visits to Operators and Technical Services Providers (TSP) that will participate in the appraisal process
- To hold meetings with the identified National Counterparts to present the appraisal process, and introduce the ORPAS self-assessment questionnaires
- To visit the identified participants to form an understanding of their facilities
- To agree the program of the full ORPAS appraisal mission

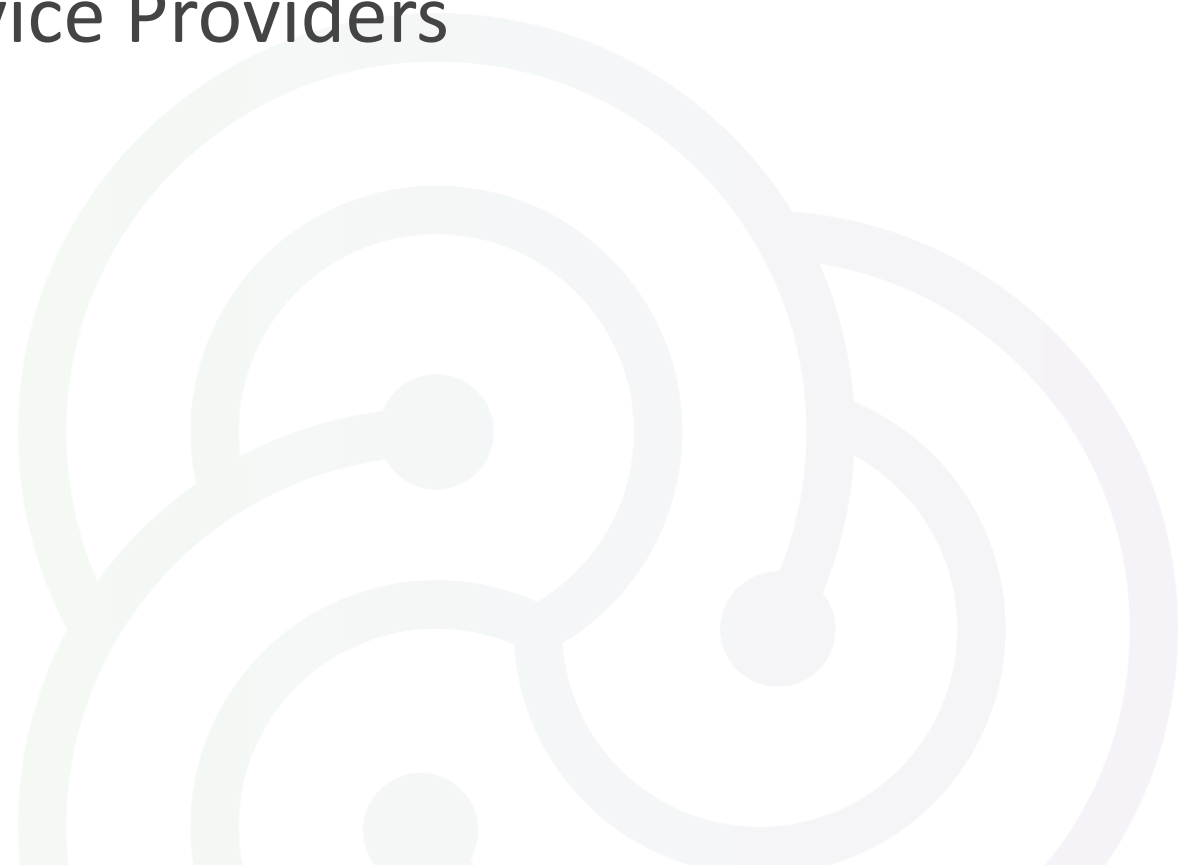
Main Purpose of Meetings

ORPAS Team Leader and IAEA Coordinator to:

- meet with host institute staff (senior management, national coordinator, national counterparts), and exchange contact details;
- introduce the ORPAS mission lead to the host country;
- inform the host institute about how the ORPAS review process works;
- identify the host institute's priorities, aims and objectives for the mission;
- explain the roles and responsibilities of ORPAS Reviewers and the way they interact with the host institute, other organizations and facility representatives;
- explain the role of the host country National Coordinator and National Counterparts before and during the review;
- discuss and confirm the dates and scope of the mission, the Advance Reference Materials the host institute will provide and primary counterparts nominated by host institute and national counterparts involved;
- explain the importance of the host institute's providing comprehensive and completed ORPAS questionnaires and a subsequent initial action plan;
- agree an outline schedule for the mission and the logistical aspects;
- explain pertinent IAEA policies (e.g. funding, contact with the media);
- answer any questions the host institute and other national counterpart representatives may have and address their concerns to the extent possible.

National Counterparts

1. Regulatory Authority
2. Technical Service Providers
3. Operators

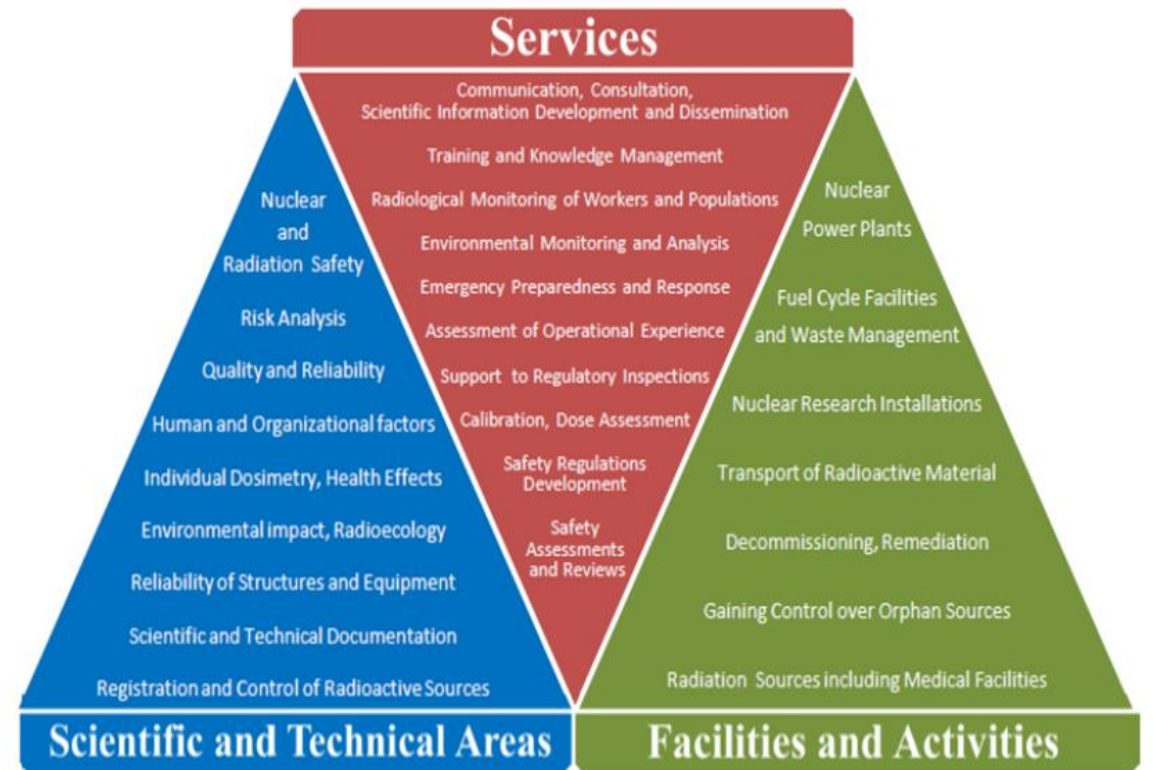


Regulatory Authority

- Review of regulatory framework and practices
- Participation in all aspects of ORPAS is critical
 - Can require TSPs and Operators to participate
 - Can require TSPs and Operators to complete assessments
 - Can provide access to facilities

Technical Service Providers

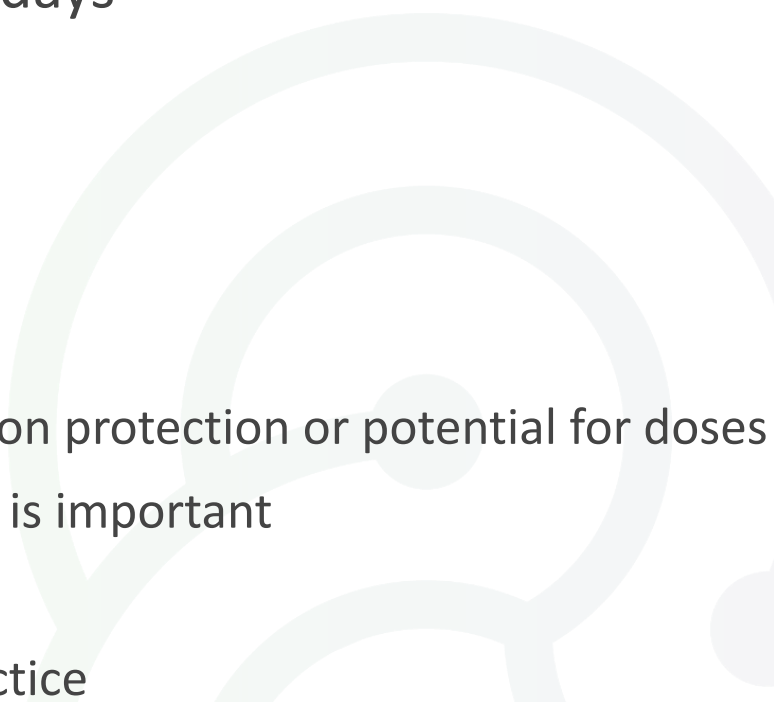
- Standards/Calibration Laboratories/Services (e.g. SSDL)
- Individual Monitoring Services
 - External Dosimetry
 - Internal Dosimetry
- Dose Record Keeping Services
- Workplace Monitoring Services
- Training Providers
- Other services



Operators

- Medical
 - Image guided interventional procedures
 - Nuclear medicine
 - Diagnostic radiology
- Industrial
 - Industrial radiography
 - Well logging and moisture gauges
 - Industrial irradiators
- Nuclear reactors
 - Research reactors
 - Radioisotope production facilities
- Research and education
- Natural sources of radiation
 - Mining of Uranium ores
 - Extraction of rare earth elements
 - Production of oil and gas
 - Manufacture of titanium dioxide pigments
 - The phosphate industry
 - Combustion of coal
 - Water treatment
- Nuclear fuel cycle facilities

Selection of Counterparts

- Representative sample only
 - Site visits should be conducted over 4 days
 - Breadth of radiation protection scenarios
 - Minimise travelling
 - Minimise size of team
 - Best use of ORPAS team
 - Organisations with high impact on radiation protection or potential for doses
 - Organisations where radiation protection is important
 - Organisations likely to indicate issues
 - Organisations likely to highlight good practice
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ORPAS Sri Lanka — Timeline - 2019

July 18

- Agree proposed candidates and timeline
- Official invitation letters to participating organisations with time line and Qs

July 26

- Candidate organisations provide brief overview to SLAEB

July 31

- SLAEB provides organisation overviews to IAEA

Aug 9

- Issue of pre-ORPAS report by the IAEA

ORPAS Sri Lanka – Timeline - 2019

Aug -
Sep

- IAEA organises External Technical Experts (Reviewers)
- Finalization of full mission agenda

Oct 11

- Organisations provide completed questionnaires to SLAEB

Oct 18

- SLAEB provides reviewed questionnaires to IAEA
- IAEA distributes appropriate questionnaires to Experts

Nov 24
Dec 2

- **ORPAS MISSION**