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# **The GNSSN Steering Committee Meeting**

## **Report of Task Force for Peer Review and Advisory Service Committee (PRASC)**

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**19 December 2016, Vienna, Austria**

# Establishment of Peer Review and Advisory Service Committee (PRASC)

- PRASC established in March-2016 with issuance of Terms of Reference (ToRs).
- The objective of PRASC is:
  - To assess the overall structure of all NS review (peer reviews and advisory) services;
  - To make recommendations for improvement, if required, and consider the best methods for monitoring the **effectiveness** and **efficiency** of the services for the application of the safety standards and security guidance.

# Functions of PRASC (1/2)

- Functions of PRASC:
  - To review existing peer review and advisory services;
  - To identify similarities and differences of existing methodologies and processes;
  - To consider the different manner in which services could be offered to ensure maximum flexibility and efficiency for States and to the extent possible, a consistent approach to the conduct of the services;

## Functions of PRASC (2/2)

- To advise on and review the necessity of any proposed new types of peer review or advisory service or consolidation of existing ones;
- To explore possibility of having a harmonized set of performance indicators for all missions in order to assess their efficiency and effectiveness;
- To review the lessons learned from peer review and advisory services and to provide recommendations for improvements;

# Steps of Assessment Methodology

1. Gathering data for peer review and advisory services and development of mapping matrix
2. Possible ways for categorization of services
3. Categorization of services
4. Defining linkages between services on the basis of;
  - a. Implementing safety standards
  - b. Assessment areas of services
5. Defining overall structure of all NS services

# Scope of PRASC (Annex-I)

## Peer Review Missions

- |   |   |
|---|---|
| 1. Integrated Regulatory Review Service (IRRS)                        | 2. Site and External Events Design (SEED)   |
| 3. Operational Safety Review Team (OSART)                             | 4. Safety Aspects of Long Term Operation (SALTO)  |
| 5. Independent Safety Culture Assessment Review Service (ISCA)        | 6. Integrated Safety Assessment of Research Reactors (INSARR)   |
| 7. Safety Evaluation During Operation of Fuel Cycle Facilities (SEDO) | 8. Integrated Review Service for Radioactive Waste and Spent Fuel Management, Decommissioning and Remediation (ARTEMIS) |
| 9. Transport Safety Appraisal Services (TranSAS)                      | 10. Occupational Radiation Protection Appraisals (ORPAS)  |
| 11. Emergency Preparedness Review (EPREV) Service                     | 12. Education and Training Review Service (ETReS)   |
| 13. Technical Safety Review (TSR)                                     | 14. Education and Training Appraisal (EduTA)  |

## Advisory Services

- |  |  |
|--|--|
| 1. Safety Culture Continuous Improvement Process (SCCIP) | 2. International Physical Protection Advisory Service (IPPAS)                              |
| 3. Safety Assessment Advisory Programme (SAAP)           | 4. Advisory Mission on the National Regulatory Infrastructure for Radiation Safety (AMRAS) |

# 1. Development of Mapping Matrix (1/3) - (Annex-II)

- Block-A (Yellow highlighted titles in matrix):
  - Data clusters “Led by”, “Team Composition”, “Performed on” and “Level”.
  - Highlights level of efforts for different services in terms of human resources required and level of implementation
- Block-B (Green highlighted titles in matrix):
  - Data clusters “Self-Assessment”, “Missions” and “Follow-up Missions”.
  - Highlights implementation process e.g. guidelines available, self-assessment, modularity, flexibility, number of missions performed so far and follow-up

# 1. Development of Mapping Matrix (2/3) - (Annex-II)

- Block-C (Blue highlighted titles in matrix):
  - Data clusters “Timeframes”.
  - Highlights extent of efforts in terms of time required to prepare for and conduct different services and the lessons learned.



# 1. Development of Mapping Matrix (3/3) - (Annex-II)

- After review of matrix and discussion, following **critical elements** were highlighted which have significant impact on effective implementation of services:
  - i. Guidelines Published;
  - ii. Modular
  - iii. Flexibility
  - iv. Follow-up required as a part of the mission;
  - v. Time interval between main mission and Follow-up Mission
  - vi. Regular lessons learnt workshops

## 2. Ways for Categorizing Services

- i. Level of Implementation:
  - National Level
  - Organizational Level
- ii. Review Scope of Services
  - Comprehensive (covering all aspects within scope) at national or organizational level
  - Specific focus
- iii. Involvement of Stakeholders in Implementation of Services
  - Involvement of more than one stakeholder
  - Involvement of one stakeholder
- iv. Performing Self-Assessment for Implementation of Services
  - Performing self-assessment
  - Not performing self-assessment

# 3. Categorization of Services – (Annex-III)

Services	National level -1a Organizational level-1b	Comprehensive- 2a Specific Focus- 2b	More than one stakeholder – 3a One stakeholder – 3b	With self-assessment Process – 4a Without self-assessment process – 4b
IRRS	1a	2a	3a	4a
SEED	1b	2b	3b	4b
OSART	1b	2a	3b	4a
SALTO	1b	2b	3b	4a
INSARR	1b	2a	3b	4a
SEDO	1b	2a	3b	4b
ARTEMIS	1a and 1b	2a and 2b	3a and 3b	4a
TranSAS	1a	2b	3a	4a
ORPAS	1b	2b	3b	4a
EPREV	1a	2a	3a	4a
ETReS	1a	2a	3a	4a
IPPAS	1a and 1b	2a	3a	4a (performed on volunteer basis)
SAAP	1b	2b	3b	4b
TSR	1b	2b	3b	4b
AMRAS	1a	2a	3a	4a
EduTA	1a	2a	3a	4a
ISCA	1b	2b	3b	4b
SCCIP	1b	2b	3b	4a

### 3. Summary of Categorization of Services - (Annex-III)

Colour Coding	Ways for Categorization	Peer Review Missions and Advisory Services
Green	<ul style="list-style-type: none"> <li>National level</li> <li>Comprehensive</li> <li>More than one stakeholder involvement</li> <li>Self-Assessment</li> </ul>	IRRS, ARTEMIS, TranSAS, EPREV, ETReS, IPPAS*, AMRAS, EduTA
Purple	<ul style="list-style-type: none"> <li>Organizational level</li> <li>Comprehensive</li> <li>One stakeholder involvement</li> <li>Self-Assessment</li> </ul>	OSART, INSARR, SEDO
Blue	<ul style="list-style-type: none"> <li>Organizational Level</li> <li>Specific focus</li> <li>One stakeholder involvement</li> <li>No Self-Assessment</li> </ul>	SAAP, TSR, SEED, ISCA, SALTO, ORPAS, SCCIP

\*Self-assessment is performed on volunteer basis.

## 4. Identifying Linkages between Services – (Annex-IV)

### a. Implementing Safety Standards

- Listing safety standards applicable for each of the services;
- Identifying safety standards which are being used for more than one services and named as **cross cutting** safety standards;
- Identifying list of safety standards (requirements level and guidance level) that have been referenced in any of the services.

For example; GSR Part 1, Rev-1 is cross cutting standard and is referenced in IRRS, OSART, AMRAS, ARTEMIS, ISCA and SCCIP

## 4. Identifying Linkages between Services

### b. Assessment Areas of Services (1/5)

#### – AMRAS and IRRS;

- Nature of these services is different as IRRS is peer review mission and AMRAS is advisory service.
- Three modules i.e. responsibility and function of Government, global safety regime and responsibilities, functions and organization of regulatory body are similar in these two services.

## 4. Identifying Linkages between Services

### b. Assessment Areas of Services (2/5)

#### – IRRS and ARTEMIS;

- ARTEMIS module on policy and framework (national) evaluates areas regarding responsibilities and functions of government, global nuclear safety regime and responsibilities of regulatory body against requirements # 1, 2, 10, 11, 14, 15, 18, 36 of GSR Part 1, Rev-1.
- Module # 1, 2 and 3 of IRRS mission evaluates same requirements of GSR Part 1, Rev-1 (i.e. Module-1 (Requirement # 1, 2, 10, 11), Module-2 (Requirement # 14, 15), Module-3 (Requirement # 18, 36)).

# 4. Identifying Linkages between Services

## b. Assessment Areas of Services (3/5)

### – IRRS and EPREV;

- IRRS module # 10 provides assessment questionnaire for emergency preparedness and response mainly based upon GSR Part 7 for regulatory body. (35 questions almost refers all requirements of GSR Part 7).
- EPREV mission evaluates all the requirements of GSR Part 7 for emergency preparedness and response by including all responsible parties at national level (including regulatory body).
- Difference in basis of Modularity of IRRS and EPREV
  - IRRS – Functions of Regulatory Body
  - EPREV – 5 EP Categories (GSR Part 7)



## 4. Identifying Linkages between Services

### b. Assessment Areas of Services (4/5)

#### – IRRS and ETReS;

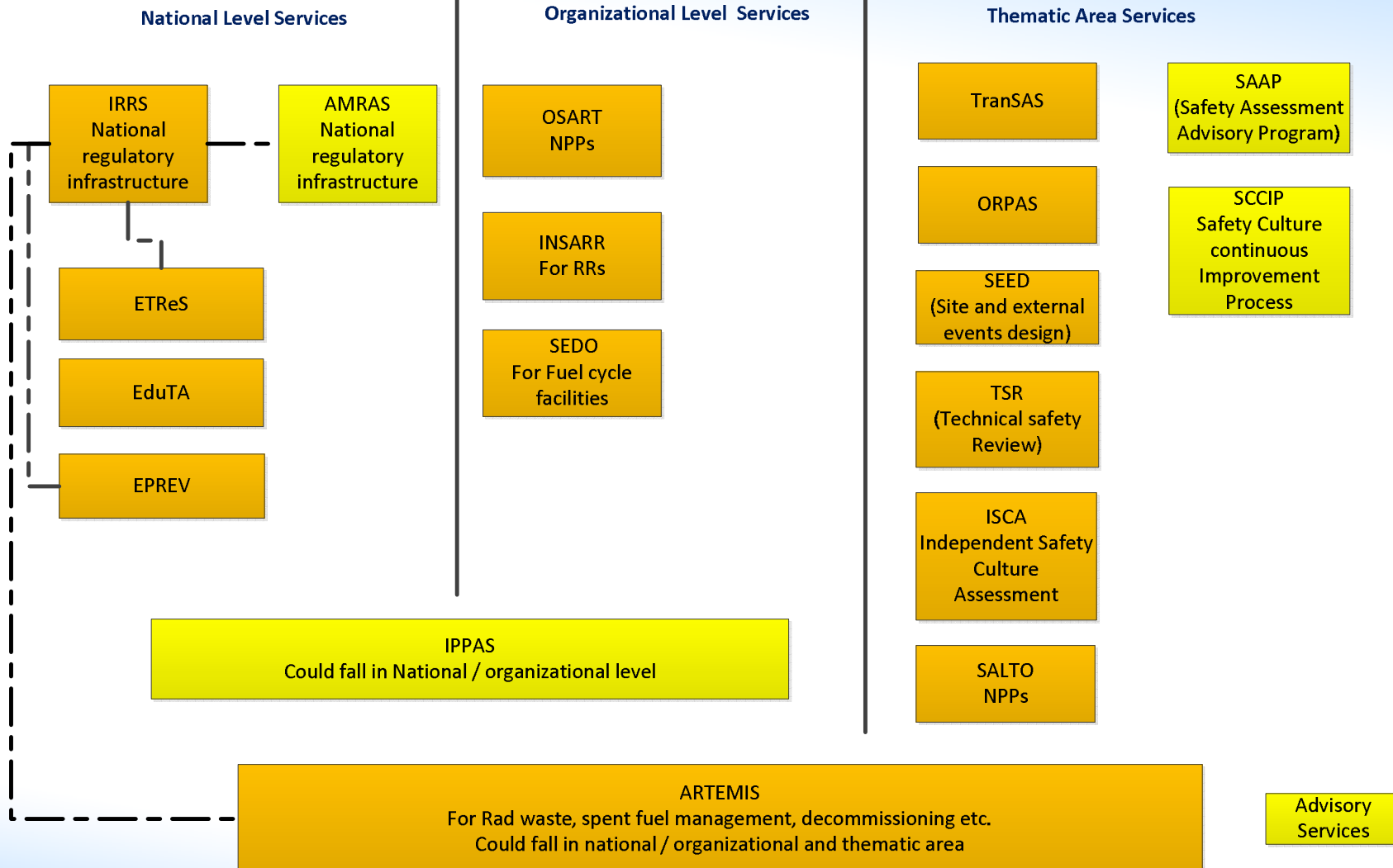
- IRRS Module-3 (responsibilities, functions and organization of regulatory body) evaluates requirement # 18 of GSR Part 1, Rev-1 regarding staffing and competence of regulatory body.
- ETReS organizational level module for regulatory body and its TSO also utilizes same requirement.
- ETReS also provides assessment questionnaire for education and training at national / organizational level for organizations like universities, training institutions, organizations of NPPs and RRs.
- Also linked regarding Requirement 11 of GSR Part 1, Rev-1(competence for safety)

## 4. Identifying Linkages between Services

### b. Assessment Areas of Services (5/5)

- Further linkages may be identified;
  - IRRS module-11 (Transport) and TranSAS mission.
  - EduTA and ETReS
  - SALTO and OSART
  - SAAP and TSR
  - SCCIP and ISCA
  - IRRS and EduTA

# 5. Overall Structure of NS Services – (Annex-V)



Note: 1. The broken line indicates linkages between services.  
 2. ARTEMIS and IRRS could be implemented together at the same time or separately.

# Conclusion

- The overall structure of services offered by department of safety and security has been developed based upon characteristics of these services.
- The understanding is improved about approaches and structure of different services which would be useful for improving efficiency, effectiveness and flexibility.

# Way Forward

## Actions

- a) Agreement on structure of existing peer review and advisory services
- a) Review similarities and differences of the methodologies and processes of existing services for defining consistent approach to the extent possible
- a) Identification of all possible linkages among services
- a) Based upon identified linkages, conduct review from perspective of Member States to identify areas to improve flexibility and efficiency of services



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*Thank you!*