Document Preparation Profile (DPP)

1. IDENTIFICATION

Document Category	**NS-R-2 {Safety Requirement}**
Working ID:	**DS 413**
Proposed Title:	**Safety of Nuclear Power Plants: Operation**
Proposed Action:	**Revision of document**
Published Title/Date	**Safety of Nuclear Power Plants: Operation**
Safety Series No.:	**NS-R-2**
SS Committee(s):	**CSS**
Technical Officer(s):	**Dominique Dubois**

2. OBJECTIVE

The objective of the revision to NS-R-2 is to correct and/or improve the document content, based on feedback from Member States and from the application of Agency Safety Services.

3. BACKGROUND

NS-R-2 was first published in 2000 and has proven to be applicable for use as an international safety standard reference for conducting Agency Safety Services, particularly the Operational Safety Review Team (OSART) service. Many Member States have also adopted NS-R-2 as a basis standard for their national regulations in the area of safety of NPP operation. Over the past six years new emphasis has emerged in areas such as Long Term Operation, Plant Ageing, Periodic Safety Reviews, Probabilistic Safety Analysis and Risk Informed Decision Making processes. It is therefore necessary to reflect the Agency's safety requirements in these areas and correct and/or improve the document based on feedback from its application by both the Agency and Member States. A Technical Meeting was organized in April 2006 to provide advise on these emerging topics and on the revision of NS-R-2 in general.

4. INTERFACES

NS-R-2 has to reflect safety principles # 1, 3, 8 and 9 of SF-1. NS-R-2 will also have to be harmonized with the recently published GS-R-3 "Management Systems".

5. OVERVIEW

CONTENT (NS-R-2)

1. INTRODUCTION

Background
Objective
Scope
Structure

2. SAFETY OBJECTIVES

3. THE OPERATING ORGANIZATION

Functions and responsibilities
Structure of the operating organization
Management of human resources
Interface with the regulatory body
Interface with external support organisations
Physical protection

4. MANAGEMENT OF OPERATIONAL SAFETY

Safety policy
Performance of safety related activities
Monitoring and review of safety performance
Human factors
Qualification and training of personnel
Emergency preparedness
Accident management
Fire prevention and protection
Radiation protection and radioactive waste management
Industrial safety
Records and reports
Feedback of operational experience

5. PLANT COMMISSIONING

Commissioning programme
Preparartion, approval, control and conduct of tests
Interfaces with operations, maintenance, constructors and design engineering

6. PLANT OPERATIONS

Operational limits and conditions
Operating procedures
Operation facilities and operator aids
Operating approaches and practices
Shift arrangements
Material conditions and housekeeping
Chemistry
Core management and fuel handling
Periodic safety review

7. PLANT MAINTENANCE

Maintenance programmes
Surveillance programmes
Conduct of maintenance, test, surveillance and in-service inspection and work control
Spare parts and materials
Outage management

8. PLANT MODIFICATIONS

Plant modification programme

Plant permanent and temporary modifications .....

9. LONG TERM OPERATION, EQUIPMENT QUALIFICATION AND AGEING MANAGEMENT .....

Management system of plant configuration and status .....
Long term operation .....
Equipment qualification (EQ).....
Ageing management.....

10. TRANSITION TO DECOMMISSIONING .....

REFERENCES .....

CONTRIBUTORS TO DRAFTING AND REVIEW .....

CONTRIBUTORS TO THE REVISION (1) .....

ADVISORY BODIES .....

6. PRODUCTION: Provisional schedule for preparation of the document, outlining expected dates for:

Technical meeting for further development of the DS 413 on April 2006
Approval on DPP by the Steering Committee- January, 2007
Approval on DPP by TRANSSC Committee on March 2007
Approval on DPP by the Safety Standards Committees NUSSC, RASSC and WASSC, April, 2007
Technical meeting for further development of the DS 413 on September 2007
Approval on DPP by the CSS, November, 2007
Development: (consultant meetings, technical committee meetings)

Approval on draft by the Steering Committee
Approval by the Safety Standards Committees for submission to Member States for comments, October/November 2008
Revision of draft by taking into account the Comments by the Member States, April, 2009
Approval on the revised draft by the Steering Committee
Approval by Safety Standards Committees for submission to the CSS, October 2009
Endorsement by the CSS, March 2010
Submission to Publications Committee for approval, March 2010
Board of Governors, June 2010
Target publication date, December 2010.