ROSATOM

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TC 322 NUCLEAR TECHNOLOGY

NATIONAL TECHNICAL COMMITTEE

THE USE OF MDEP PRODUCTS FOR RUSSIAN NATIONAL STANDARDS DEVELOPMENT

ANDREY OBUSHEV

EXECUTIVE SECRETARY OF TC 322

4th MDEP Conference on New Reactor Design Activities

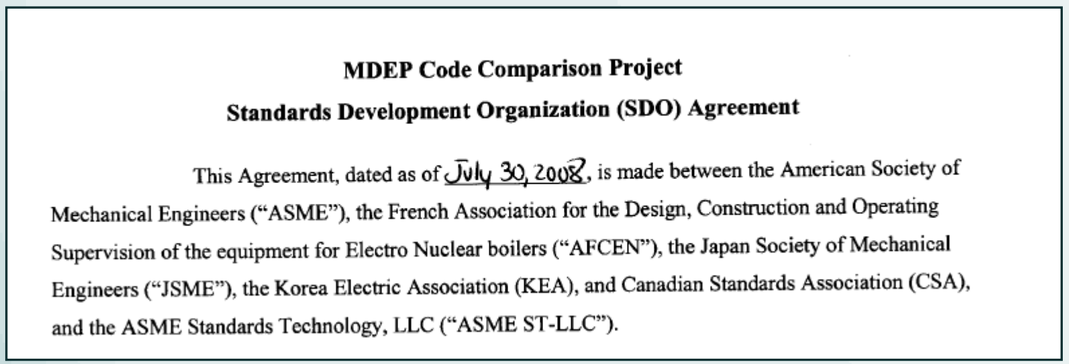
London, the United Kingdom

12 – 13 September 2017

MDEP Activities on Mechanical Codes and Standards

MDEP
Mechanical Codes and
Standards Working Group

Convergence Board
(ex. Code Comparison Project)



MDEP Code Comparison Project

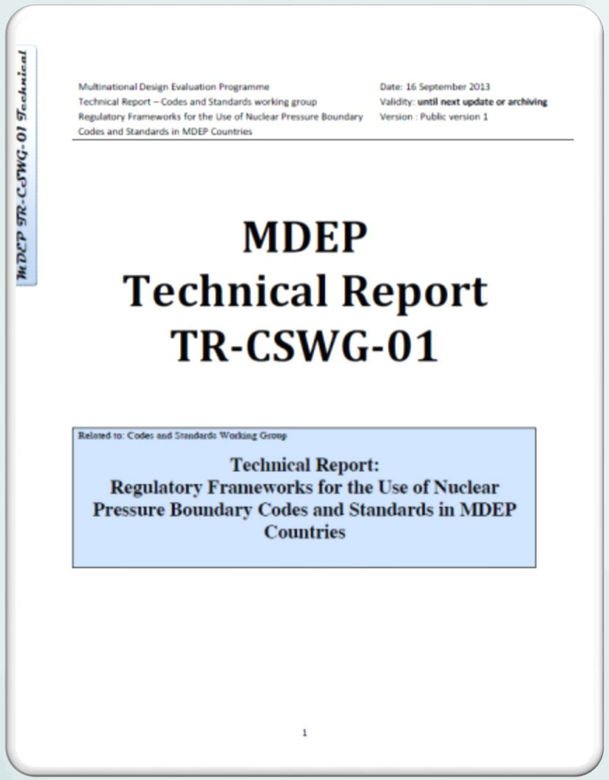
Standards Development Organization (SDO) Agreement

This Agreement, dated as of July 30, 2008, is made between the American Society of Mechanical Engineers ("ASME"), the French Association for the Design, Construction and Operating Supervision of the equipment for Electro Nuclear boilers ("AFCEN"), the Japan Society of Mechanical Engineers ("JSME"), the Korea Electric Association (KEA), and Canadian Standards Association (CSA), and the ASME Standards Technology, LLC ("ASME ST-LLC").

ASME
afcen
JSME
Kepic
CANADIAN STANDARDS ASSOCIATION
NIKIET

MDEP Products
Technical Reports

Mechanical Codes and Standards Working Group



MDEP TR-CSWG-01 Technical

Multinational Design Evaluation Programme
Technical Report – Codes and Standards working group
Regulatory Frameworks for the Use of Nuclear Pressure Boundary Codes and Standards in MDEP Countries

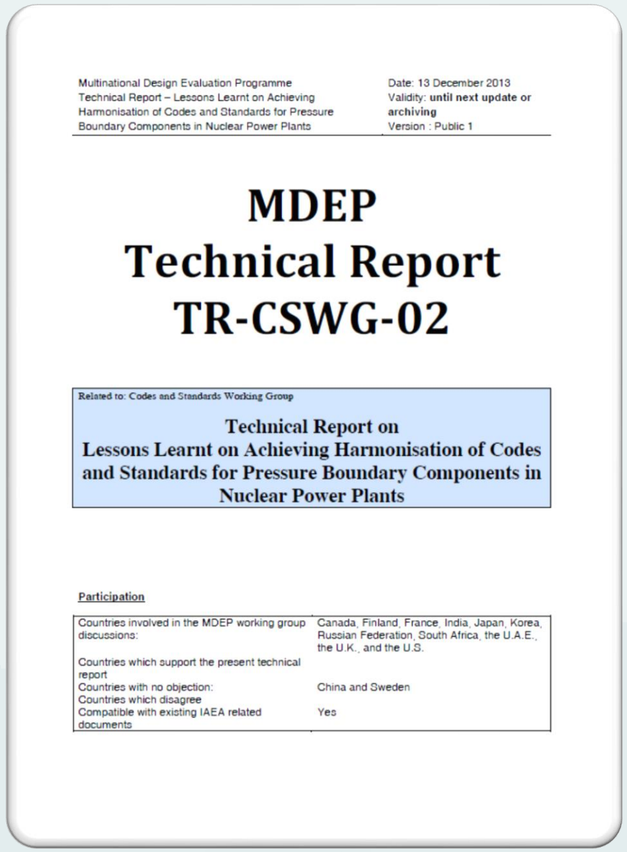
Date: 16 September 2013
Validity: **until next update or archiving**
Version : Public version 1

MDEP
Technical Report
TR-CSWG-01

Related to: Codes and Standards Working Group

Technical Report:
Regulatory Frameworks for the Use of Nuclear Pressure Boundary Codes and Standards in MDEP Countries

1



Multinational Design Evaluation Programme
Technical Report – Lessons Learnt on Achieving Harmonisation of Codes and Standards for Pressure Boundary Components in Nuclear Power Plants

Date: 13 December 2013
Validity: **until next update or archiving**
Version : Public 1

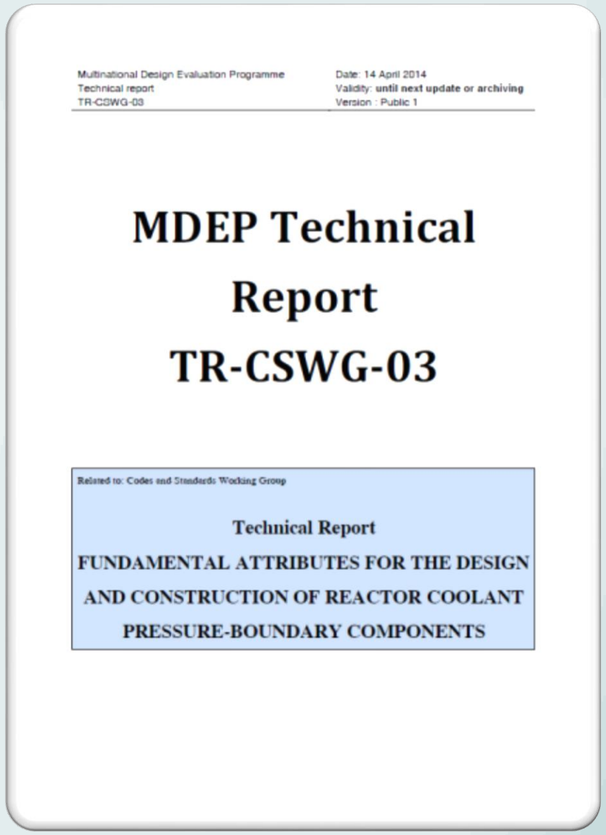
MDEP
Technical Report
TR-CSWG-02

Related to: Codes and Standards Working Group

Technical Report on
Lessons Learnt on Achieving Harmonisation of Codes and Standards for Pressure Boundary Components in Nuclear Power Plants

Participation

Countries involved in the MDEP working group discussions:	Canada, Finland, France, India, Japan, Korea, Russian Federation, South Africa, the U.A.E., the U.K., and the U.S.
Countries which support the present technical report	
Countries with no objection:	China and Sweden
Countries which disagree	
Compatible with existing IAEA related documents	Yes



Multinational Design Evaluation Programme
Technical report
TR-CSWG-03

Date: 14 April 2014
Validity: **until next update or archiving**
Version : Public 1

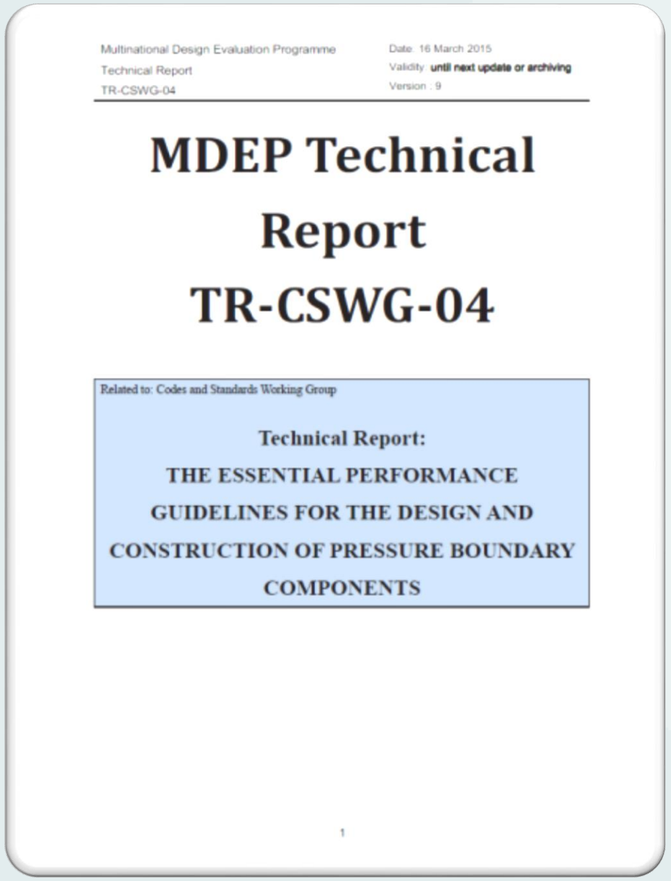
MDEP Technical Report
TR-CSWG-03

Related to: Codes and Standards Working Group

Technical Report
FUNDAMENTAL ATTRIBUTES FOR THE DESIGN AND CONSTRUCTION OF REACTOR COOLANT PRESSURE-BOUNDARY COMPONENTS

MDEP Products
Summarizing Reports and Common Positions

Mechanical Codes and Standards Working Group



Multinational Design Evaluation Programme
Technical Report
TR-CSWG-04

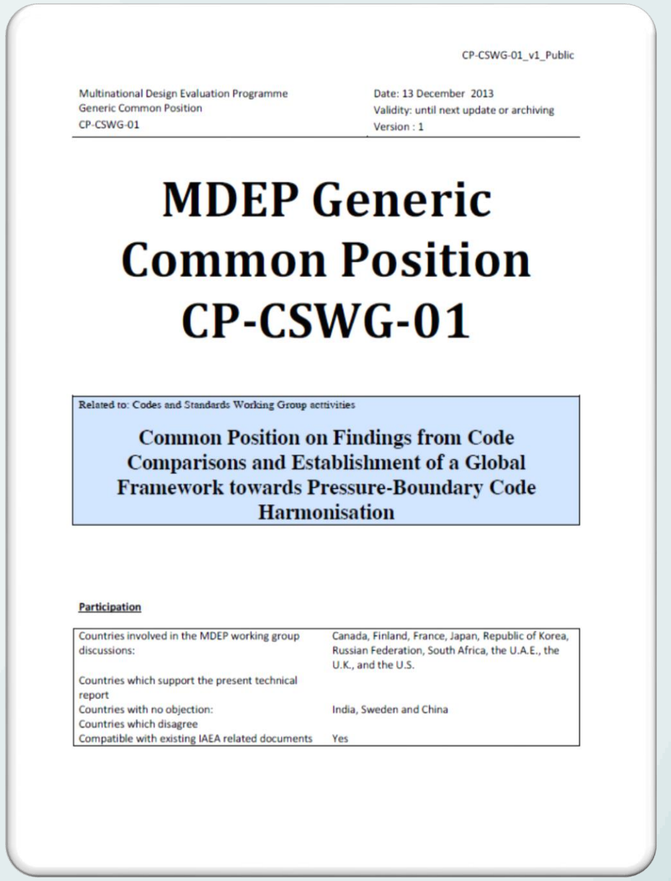
Date: 16 March 2015
Validity: **until next update or archiving**
Version : 9

MDEP Technical Report TR-CSWG-04

Related to: Codes and Standards Working Group

Technical Report: THE ESSENTIAL PERFORMANCE GUIDELINES FOR THE DESIGN AND CONSTRUCTION OF PRESSURE BOUNDARY COMPONENTS

1



CP-CSWG-01_v1_Public

Multinational Design Evaluation Programme
Generic Common Position
CP-CSWG-01

Date: 13 December 2013
Validity: until next update or archiving
Version : 1

MDEP Generic Common Position CP-CSWG-01

Related to: Codes and Standards Working Group activities

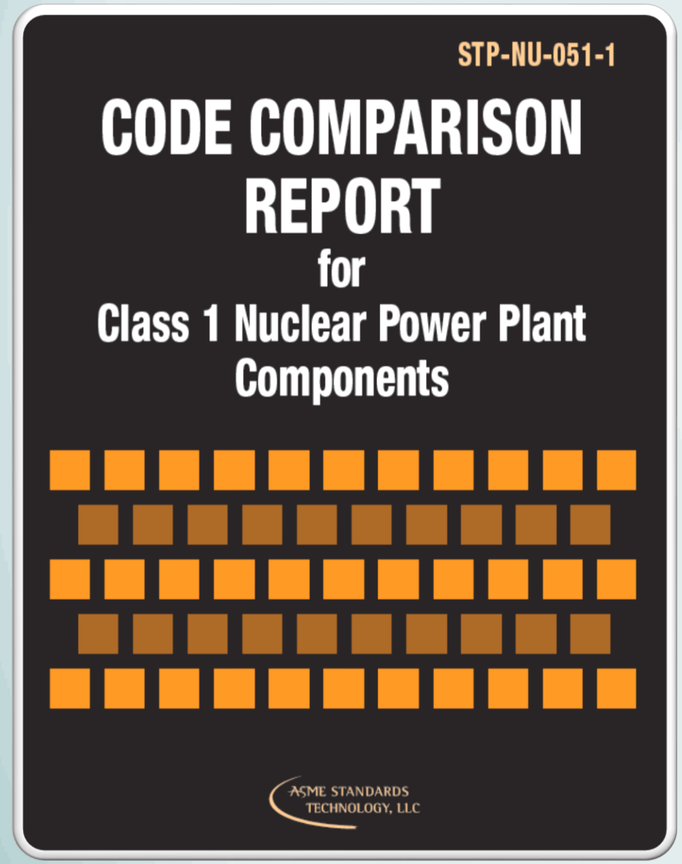
Common Position on Findings from Code Comparisons and Establishment of a Global Framework towards Pressure-Boundary Code Harmonisation

Participation

Countries involved in the MDEP working group discussions:	Canada, Finland, France, Japan, Republic of Korea, Russian Federation, South Africa, the U.A.E., the U.K., and the U.S.
Countries which support the present technical report	
Countries with no objection:	India, Sweden and China
Countries which disagree	
Compatible with existing IAEA related documents	Yes

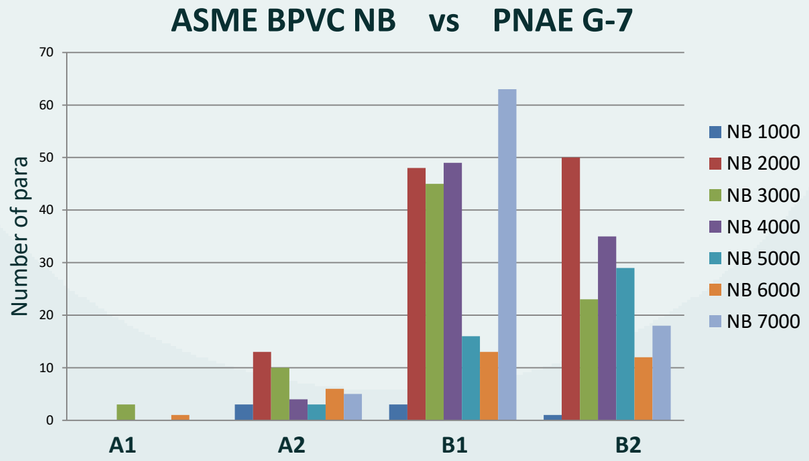
MDEP-Initiated Products Comparison Reports

Code Comparison Project

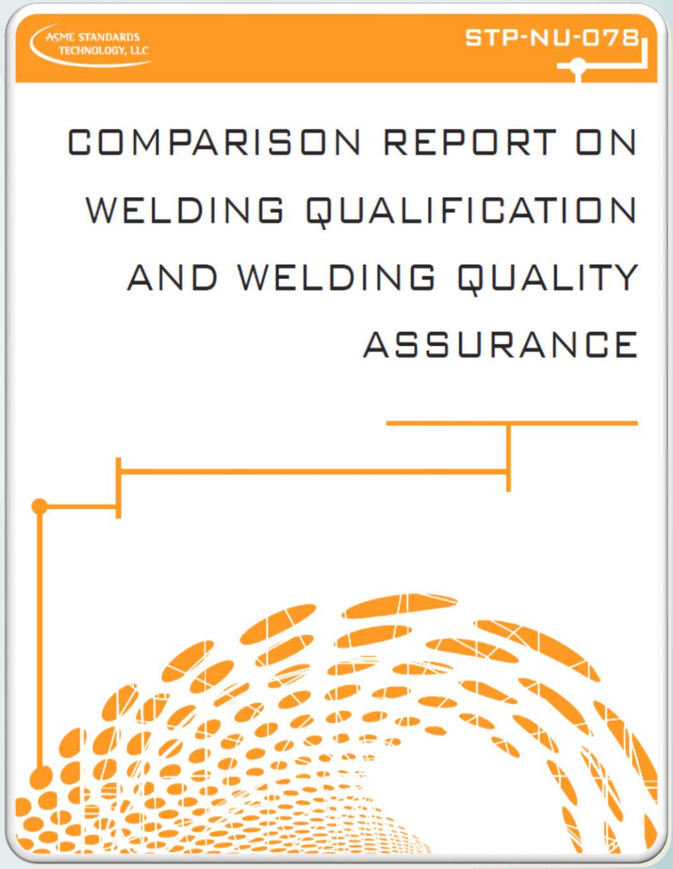


Line-by-line comparison

A1	Same
A2	Equivalent
B1	Not Addressed in Foreign Code
B1	Not Addressed in ASME BPVC
B2	Not Equivalent

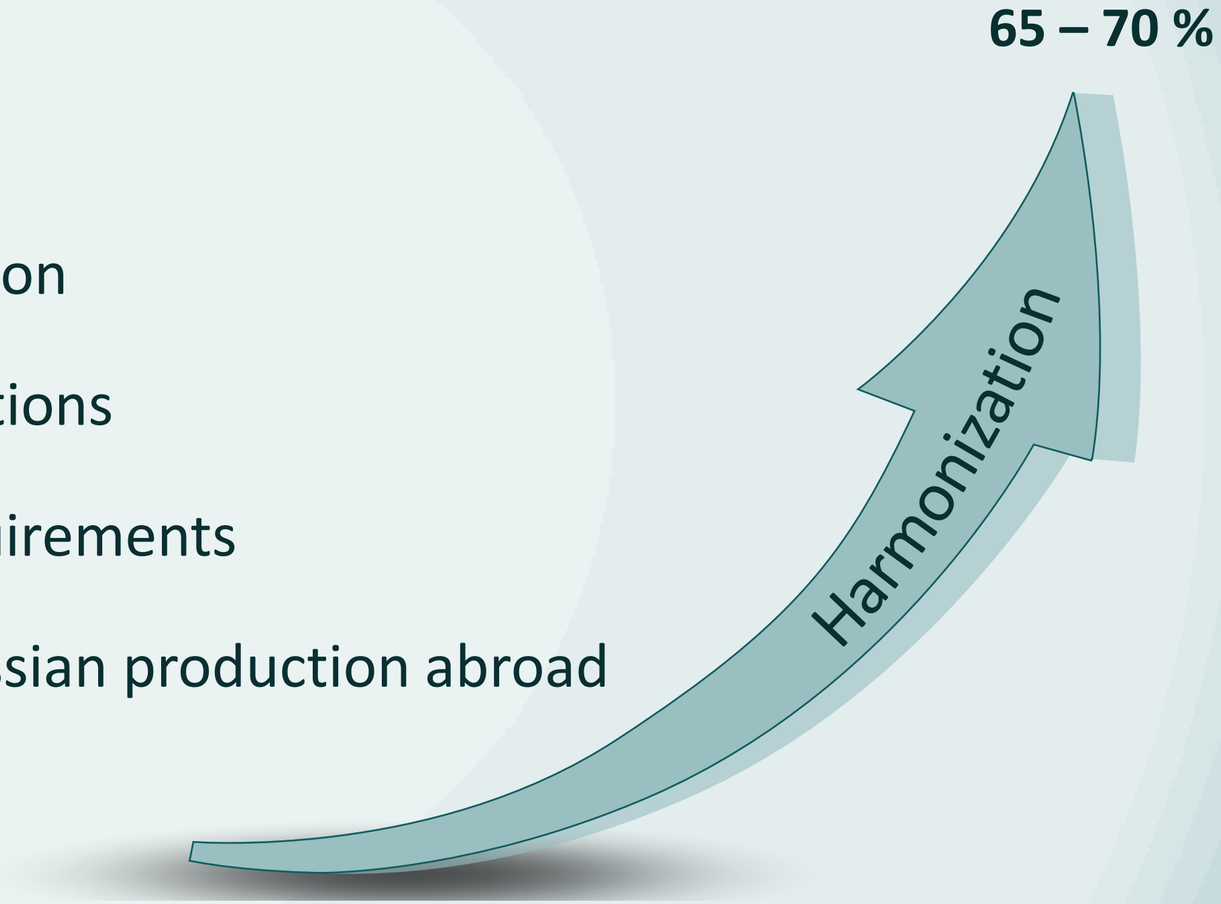


Convergence Board



Russian National Standards Development
Standardization Goals

- Increasing the safety level
- Increasing the quality of production
- Standardization of technical solutions
- Fulfillment the international requirements
- Facilitation the application of Russian production abroad



The Plan of the Realization of National Standardization Conception

Russian National Standards Development
International Cooperation

TC 85
Nuclear Energy, Nuclear Technologies, and Radiological Protection

TC 45
Nuclear Instrumentation

TC 322 Nuclear Technology
National Technical Committee

TC 322 Secretariat
VO "Safety"

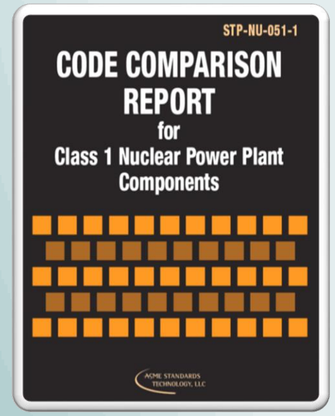
Convergence Board

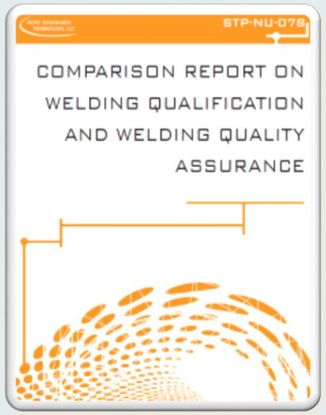
Codes & Standards Task Force

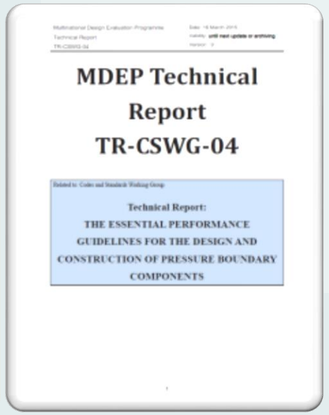
Russian National Standards Development
Current Activity

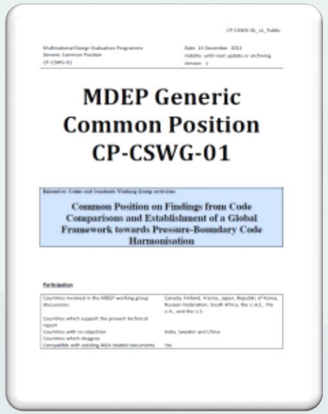
The working plan 2016 – 2018 of TC 322 “Nuclear Technology”

- ✓ *The set of standards on NDE*
- ✓ *The set of standards on Producing Technologies Qualification*
- ✓ *The set of standards on Conformity Assessment*
- ✓ *The set of standards on Strength Analysis*
- ✓ *The set of standards on Ageing Management and Remaining Life Determination*









under Convergence Board scope

TC 322 Secretariat
VO “Safety”

Thank you for your attention

ANDREY OBUSHEV

EXECUTIVE SECRETARY OF TC 322 “NUCLEAR TECHNOLOGY”

DEPUTY DIRECTOR OF VO “SAFETY”

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