

Joint BSEE/API Workshop
Nov. 14-15, 2012

API Offshore Standards Update (SC2)
Ward Turner (Chair)

SC 2 Offshore Standards Summary

- 34 documents (RPs, Specs, Bulletins)
- 13 task groups currently active
- Five categories of documents
 - Complete structural system (e.g., jackets, TLPs)
 - Components of a system (e.g., mooring, cranes)
 - Materials (e.g., steel metallurgy)
 - Design requirements (e.g., metocean, geotech)
 - Inspection/Service (e.g., assessment)

Structural Systems

Doc. Type	Doc. Number	API Document	Ed.	Date	Reaff. Date	TG Active?
RP	2A-WSD	<i>Planning, Designing and Constructing Fixed Offshore Platforms- Working Stress Design</i>	21	2000	2010	Yes
RP	2FPS	<i>Planning, Designing, and Constructing Floating Production Systems</i>	2	2011		No
RP	2N	<i>Planning, Designing, and Constructing Structures and Pipelines for Arctic Conditions</i>	2	1995	2007	No
RP	2T	<i>Planning, Designing and Constructing Tension Leg Platforms</i>	3	2010		No

Components

Doc. Type	Doc. Number	API Document	Ed.	Date	Reaff. Date	TG Active?
Spec	2C	<i>Offshore Cranes</i>	7	2012		No
RP	2L	<i>Planning, Designing and Constructing Heliports for Fixed Offshore Platforms</i>	4	1996	2012	Yes
RP	2RD	<i>Design of Risers for Floating Productions Systems (FPSs) and Tension-Leg Platforms (TLPs)</i>	1	1998	2006	Yes
Bull	2S	<i>Design of Windlass Wildcats for Floating Offshore Structures</i>	2	1995	2001	No
RP	2SK	<i>Design and Analysis of Stationkeeping Systems for Floating Structures</i>	3	2005	2008	Yes
Bull	2TD	<i>Guidelines for Tie-downs on Offshore Production Facilities for Hurricane Season</i>	1	2006		Yes
Bull	2U	<i>Stability Design of Cylindrical Shells</i>	3	2004		No
Bull	2V	<i>Design of Flat Plate Structures</i>	3	2004		No
RP	2SM	<i>Design, Manufacture, Installation, and Maintenance of Synthetic Fiber Ropes for Offshore Mooring</i>	1	2001	2007	Yes

Materials

Doc. Type	Doc. Number	API Document	Ed.	Date	Reaff. Date	TG Active?
Spec	2B	<i>Fabrication of Structural Steel Pipe</i>	6	2001	2007	No
Spec	2F	<i>Mooring Chain</i>	6	1997	2010	No
Spec	2H	<i>Carbon Manganese Steel Plate for Offshore Platform Tubular Joints</i>	9	2006	2012	No
Spec	2MT1	<i>Carbon Manganese Steel Plate with Improved Toughness for Offshore Structures</i>	2	2001	2012	No
Spec	2MT2	<i>Rolled Shapes with Improved Notch Toughness</i>	1	2002	2010	No
Spec	2SC	<i>Structural Steel Castings for Primary Offshore Applications</i>	1	2009		No
Spec	2SF	<i>Manufacture of Structural Steel Forgings for Primary Offshore Applications</i>	New			Yes
Spec	2W	<i>Steel Plates for Offshore Structures, Produced by Thermo-Mechanical Control Processing (TMCP)</i>	5	2006	2012	No
RP	2X	<i>Ultrasonic and Magnetic Examination of Offshore Structural Fabrication and Guidelines for Qualification of Technicians</i>	4	2004	2010	Yes
Spec	2Y	<i>Steel Plates, Quenched-and-tempered, for Offshore Structures</i>	5	2006	2012	No
RP	2Z	<i>Preproduction Qualification for Steel Plates for Offshore Structures</i>	4	2005	2010	No

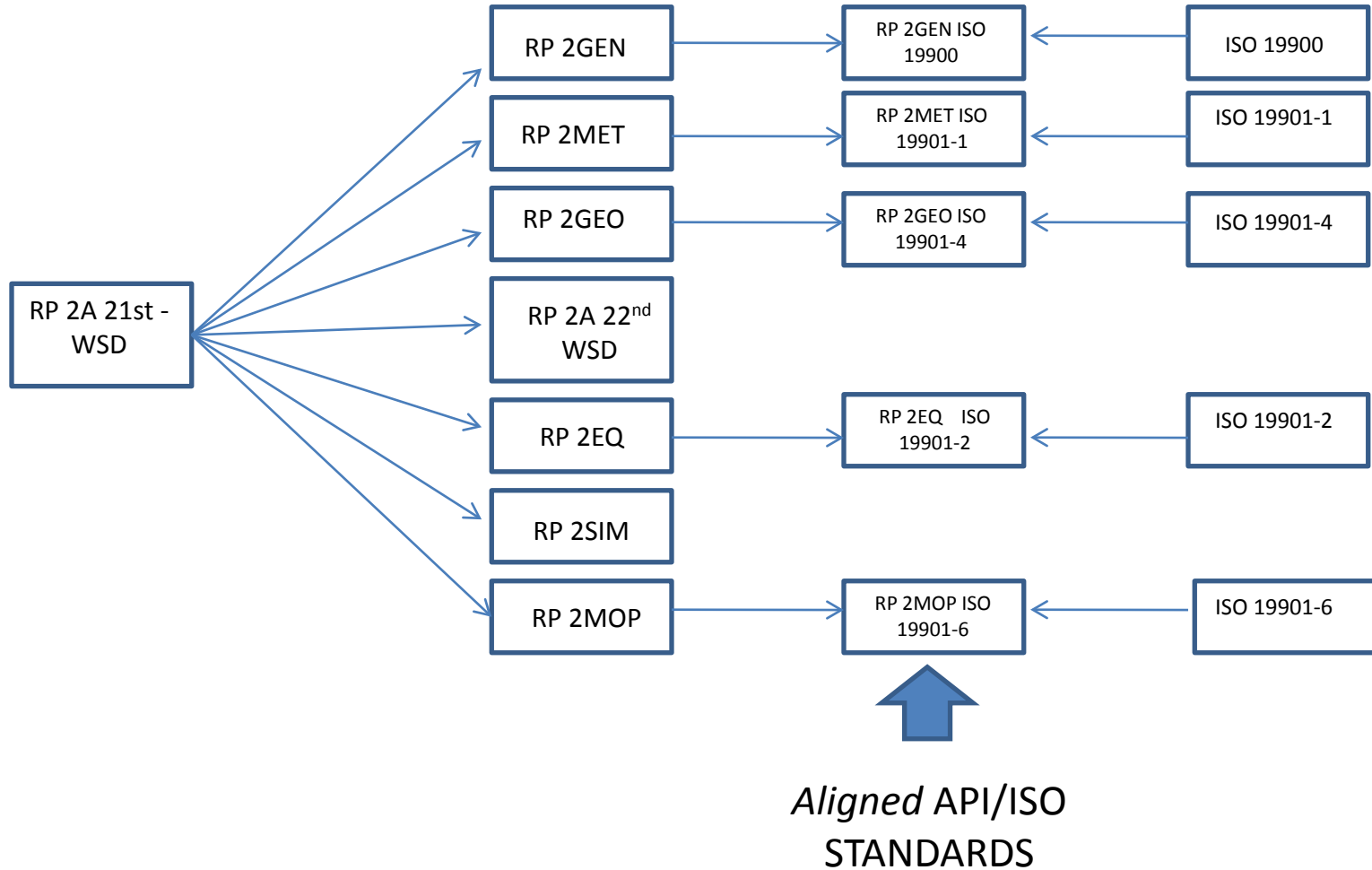
Design Requirements

Doc. Type	Doc. Number	API Document	Ed.	Date	Reaff. Date	TG Active?
RP	2EQ	<i>Seismic Design Procedures and Criteria for Offshore Structures</i>	New			Yes
RP	2FB	<i>Design of Offshore Facilities Against Fire and Blast Loading</i>	1	2006	2012	No
RP	2GEO	<i>Geotechnical and Foundation Design Considerations</i>	1	2011		Yes
RP	2GEN	<i>General Requirements for Offshore Structures</i>	New			
Bull	2INT-DG	<i>Interim Guidance for Design of Offshore Structures for Hurricane Conditions</i>	1	2007		No
Bull	2INT-MET	<i>Interim Guidance on Hurricane Conditions in the Gulf of Mexico</i>	1	2007		No
RP	2MET	<i>Derivation of Metocean Design and Operating Condition</i>	New			Yes

Inspection/Service

Doc. Type	Doc. Number	API Document	Ed.	Date	Reaff. Date	TG Active?
RP	121	<i>In-service Inspection of Mooring Hardware for Floating Drilling Units</i>	3	2008		No
Bull	12INT-EX	<i>Interim Guidance for Assessment of Existing Structures for Hurricane Conditions</i>	1	2007		No
RP	12SIM	<i>Structural Integrity Management of Fixed Offshore Structures</i>	New			Yes

API/ISO ALIGNMENT STRATEGY for RP2A



2012 Alignment Map

INTRODUCTION										
RP 2GEN							ISO 19900			
General Parts										
Metocean	Seismic Design	Topsides Design	Geotechnical/ Foundations	Structural Integrity Management	Marine Operations	Station Keeping	Fire and Blast	Weight Control	Plates	Shells
RP 2MET	RP 2EQ	RP 2TOP	RP 2GEO/ ISO 19901-4	RP 2SIM	RP 2MOP/ ISO 19901-6	RP 2SK RP 2SM ISO 19901-7 RP 2I	RP 2FB	RP 2WGT	2V	2U
ISO 19901-1	ISO 19901-2	ISO 19901-3	ISO 19901-8	ISO 19902 ISO 19904-1		ISO 19901-7	ISO 19901-3	ISO 19901-5		
Specific Structures										
Fixed steel structures			Concrete Structures	Floating Structures	TLP	Jack-ups	MODUs	Arctic Structures	Riser Design	
RP2A-WSD	RP2A-LRFD ISO 19902	RP 2CON	RP 2FPS	RP 2T				RP 2N	RP 2RD/ ISO 13628	
		ISO 19903	ISO 19901-4			ISO 19905-1	ISO 19903-3	ISO 19906		

Existing

To Be
Published 2012

Under
Revision

Under Development

Not
Started

No
Plans