



RECOMMENDED MODERNIZATION OF REFERENCED STANDARDS IN BSEE CFR

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1 Overview

The objective of the *Recommended Modernization of Referenced Standards in BSEE CFR* is to

- 1) increase knowledge among operating companies about which standards are referenced by the Code of Federal Regulations, 30 CFR 250.198, (CFR)
- 2) review the standards currently referred in the CFRs
- 3) identify with industry SMEs which standards are due for rapid updating in the CFR and which standards are due for update after sufficient review

This process will allow BSEE to understand the most important referenced standards in the CFR which need removing, updating, or adding based on the assessment from the OOC Workgroup. Often, operating companies must request alternative compliance to the regulations because the currently referenced standards are out-of-date.

Currently the BSEE regulatory text contains 125 referenced standards. BSEE recognizes that a number of these references are out of to date, (for example not the latest edition is incorporated, or outdated standards that are withdrawn by the standard setting organizations are referenced). Due to the lengthy rule making process such problem persists. Hence, BSEE and the OOC have engaged volunteer subject matter experts (SMEs) to provide feedback on the most important standard references to be updated and added through incorporation by reference into the CFR. Reasons these standard references within regulations need to be reviewed include:

- A. Standard incorporated by reference are out of date
- B. Technologies have evolved and the incorporated by reference standard no longer reflects the current available technology
- C. Lessons learned from usage of the older standard show that the standard is no longer up-to-date, and the newer edition should be used
- D. Standard was withdrawn by standard setting organizations and replaced by newer standard
- E. Standard organizations have released new standards that reflect current technologies and practices
- F. All of the above reasons could require operators to receive approval for alternate compliance to the regulations to maintain the highest level of safety

1.1 BSEE Rule Making Process

As BSEE noted in their presentation at the January 29, 2020 workshop, BSEE is prohibited under applicable rules governing incorporation by reference from automatically incorporating future amendments to or editions of a standard. The Federal Register requires incorporation of a specific, dated edition into the Code of Federal Regulations (1CFR 51.9).

BSEE's use of standards are coordinated through the Standards Development Section in Houston, BSEE subject matter experts, and the Regulations Development Section. The use of standards is mandated by the National Technology Transfer and Advancement Act.

Regulation §250.115 establishes the general expectation for compliance with incorporated documents and defines the procedures for incorporation of documents by reference. Regulation §250.198 lists all the standards that are incorporated and identifies the CFR section where they are referenced.



BSEE may:

- A. Incorporate the standard in its entirety
- B. Incorporate certain sections or parts of a standard, or
- C. Intentionally incorporate a previous edition

To update the standard, any changes to an incorporation by reference requires rulemaking action (as required by the Administrative Procedure Act).

Option 1: Update by direct final rule which allows BSEE to publish a final rule without the proposed rule process.

- A. § 250.115(b): BSEE may make the rule amending the document effective without prior opportunity for public comment when BSEE determines:
 - 1. That the revisions to a document result in safety improvements or represent new industry standard technology and do not impose undue costs on the affected parties; and
 - 2. BSEE meets the requirements for making a rule immediately effective under 5 U.S.C. 553.
- B. 5 U.S.C. 553.
 - 1. to interpretative rules, general statements of policy, or rules of agency organization, procedure, or practice; or
 - 2. when the agency for good cause finds (and incorporates the finding and a brief statement of reasons therefor in the rules issued) that notice and public procedure thereon are impracticable, unnecessary, or contrary to the public interest

Option 1 is typically a shorter process (approximately 6 months) and is typically used for updating out-of-date documents incorporated by reference to the current editions. In general, this can be accomplished if the changes between the incorporated document and the newer edition are not significant. It is also used when there are critical needs for environmental and personnel safety

Option 2: Update through notice and comment rulemaking process (proposed rule, public comment, and final rule). This complete rulemaking process requires:

- 1. Publication of a notice of proposed rulemaking
- 2. Public comment period
- 3. Evaluation and response to public comments
- 4. Publication of a final rule

Option 2 is a much longer process which takes at least 1 to 2 years and is usually used for documents not currently incorporated by reference (i.e. new to BSEE regulations) and when there are significant differences between the incorporated document and the updated edition.

Additional Options: BSEE regulations allow for an alternative approach:

- A. § 250.115(d): Under §§250.141 and 250.142, you may comply with a later edition of a specific document incorporated by reference, provided:



1. It can be shown that complying with the later edition provides a degree of protection, safety, or performance equal to or better than would be achieved by compliance with the listed edition; and
2. Prior written approval for alternative compliance from the authorized BSEE official can be obtained

This allows operators to request compliance with a newer edition on a case-by-case basis.

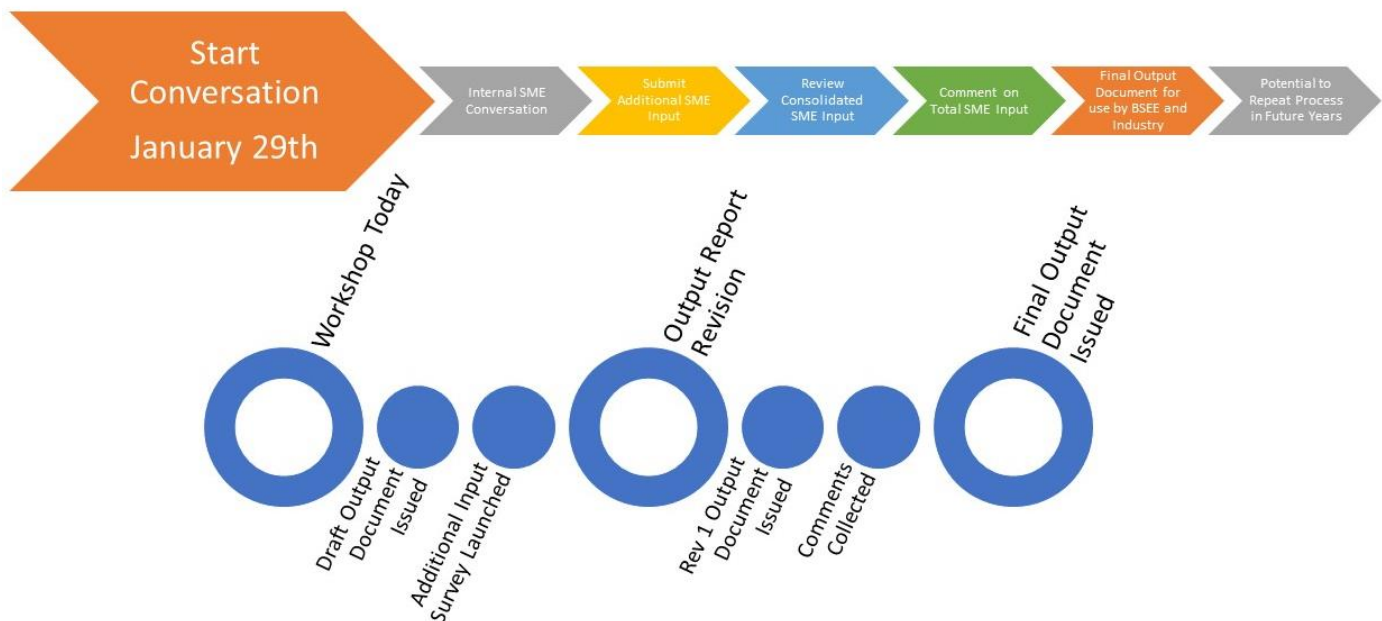
The currently referenced standards in the BSEE CFR are listed in Appendix A.

1.2 Process

To solicit SME involvement from a wide variety of backgrounds, this process included multiple stakeholders including BSEE, leaseholders, service companies, consultants, and trade organizations.

To accomplish these goals, the following process was developed:

1. Stakeholder Workshop
2. Draft document produced
3. Broad SME input to draft document #1
4. OOC Referenced Standards Workgroup review of survey results and revised draft document #1
5. Broad SME comment to draft document #2
6. OOC Referenced Standards Workgroup review of input and produce final *Recommended Modernization of Referenced Standards in BSEE CFR* document
7. Final document issued for use by stakeholders





2 Stakeholder Workshop

The Stakeholder Workshop was held on January 29, 2020 in The Woodlands, TX. This workshop focused on input from operating companies on which standards referenced in the CFR are most important to update, to remove and to add. This workshop was the beginning of a comprehensive process such that the final report submitted to BSEE would encompass feedback from multiple and diverse group of volunteer stakeholders.

2.1 Workshop Planning Committee

The Referenced Standards Workshop would not have been possible without the efforts of the planning committee. This planning committee was responsible for the development of the agenda, pre-event surveys and facilitation during the event.

Table 1: Workshop Planning Committee

Alton Payne, BSEE	Holly Hopkins, API
Angie Barbara, OOC	Julian Pham, BSEE
Brian Skeels, TechnipFMC	Kirk Malstrom, BSEE
Evan Zimmerman, OOC	Roland Goodman, API
Greg Kusinski, Chevron	Stephanie Kusinski, OOC

2.2 Workshop Agenda

The Workshop allowed the attendees to understand the importance and the objectives of the Stakeholder Workshop and the subsequent process. BSEE provided a comprehensive review of the rule making process to all attendees. Next, the participants were placed into small breakout groups in which they actively identified and discussed which standards they felt were the most important to incorporate by reference in order to increase safety and efficiency offshore. This included currently referenced standards as well as ones which are not currently referenced. The groups identified the standard and edition and captured one or more bullet points on why this reference should be discussed.

After the breakout groups finished discussion, they reported out to the full group. These standards were compiled, and each attendee was given 10 voting stickers to rank the priority of each standard that was discussed. The final votes were tallied and after further discussion amongst the entire group, the final consensus from the broad Stakeholder Workshop were included in the first draft of the *Recommended Modernization of Referenced Standards in BSEE CFR* document.

8:00 - 8:30	Registration
8:30 - 8:45	Introduction & Safety Brief
8:45 - 9:15	Workshop Objective & Referenced Standards Overview
9:15 - 9:30	Breakout Group Instructions
9:30 - 9:45	BREAK
9:45 - 10:30	Breakout Group Session 1 (Focus: Updates to already referenced standards)
10:30 - 10:45	BREAK & Switch table make up
10:45 - 11:30	Breakout Group Session 2 (Focus: New standards not currently referenced)
11:30 - 12:15	Lunch
12:15 - 1:00	Breakout Group Reports (review findings)
1:00 - 1:30	Individual Reference Ranking Exercise
1:30 - 1:45	Break
1:45 - 2:30	Summary Panel (BSEE, OOC, API, Industry)
2:30 - 3:00	Next Steps & Adjourn



2.3 Workshop Attendance

The following representatives registered and attended the SME Referenced Standards Workshop

Table 2: Stakeholder Workshop Attendance

Alton Payne, BSEE	Julian Pham, BSEE
Anthony Cannata, Tanks A Lot, LLC	Kirk Malstrom, BSEE
Beth Atwood, BP	Matthew Douglas, J Connor Consulting
Brandy Huynh (Harrington), COS	Melissa Sassella, Talos Energy Inc.
Brian Skeels, TechnipFMC	Michael Fouchi, Chevron
Daniel Hamilton, Williams	Natalie Schumann, Castex Offshore, Inc.
Erik Case, ExxonMobil Corporation	Paul Hansen, Chevron
Evan Zimmerman, OOC	Paul Landry, LLOG Exploration Co.
Frank Gallander, Chevron USA Inc	Roland Goodman, API
Frank Sanclementi, Hess	Senthil Chidambaram, ABS
Fred Brink, BSEE	Stephanie Kusinski, OOC
Greg Kusinski, Chevron	Steve Champagne, Talos Energy
Gregg Walz, Occidental Petroleum	Steve Frantz, Arena Offshore, LP
Holly Hopkins, API	Thad Dunham, IADC
Jeff Camp, K Camp & Associates	Wanda Parker, WJP Enterprises
Joshua Wilson, Chevron	

2.4 Workshop Output

During the Referenced Standards Workshop, several new editions and standards were identified as needing to be updated, to be removed or to be added to the CFR. The attendees then applied a relative opinion vote on the urgency of proper CFR Reference. This voting exercise resulted in additional discussion on several standards which may need further clarification or additional work by industry and BSEE before recommending it for referencing. A preliminary list of standards was established for further discussion.

Next, the preliminary list of standards (Draft document #1) were included in a wide industry/BSEE stakeholder survey for ranking.



3 Broad SME and Stakeholder Input to Draft Document #1

Draft document #1 was issued and reviewed by industry SMEs between February – June 2020. During this time, a comment period was open for 45 days for additional input and suggested changes. Comments were submitted via an OOC hosted survey.

OOC received 162 responses during this comment period. These comments were consolidated and organized by OOC staff and the prepared information was sent to the OOC Referenced Standards Workgroup for review. The responses included:

- A. 50 entries from operators
- B. 10 entries from government agencies
- C. 80 entries from service companies
- D. 22 entries from consultants



4 OOC Referenced Standards Workgroup Meetings

In July 2020, the OOC Referenced Standards Workgroup was formed. This Workgroup met over a series of four meetings between July – August 2020 to review the additional input and suggested changes by the industry SMEs and to create a second draft document.

The objective of the meetings was to:

1. Review each broad SME recommended standard, the reason, and the suggested priority level
2. Utilize collective SME judgement to summarize the overall SME recommendation, reason, and priority
3. Discuss as a group and come to consensus position on how to update and finalize the output report

To accomplish the objective, the Workgroup followed the below listed process:

1. First Pass Consensus. Clear consensus documents identified. If consensus could not be quickly reached, the standard was put on a list to discuss further
2. Second Pass Consensus where the Workgroup discussed
 - a. Standards that need further discussion
 - b. Standards that need additional context
3. Document the updated standards – grouped into three lists
 - a. Standards to be documented in output report
 - b. Standards that should be considered next year
 - c. Standards that should not be referenced at this time
4. Draft the Output Report

4.1 Referenced Standards Workgroup Roster

Referenced Standard Workgroup participants are listed in Table 3.

Table 3: Referenced Standards Workgroup Roster

Greg Kusinski, Chevron (Chair)	Laurie Knape, Avetta
Brian Skeels, TechnipFMC (Co-Chair)	Mark Temple, UL
Aravind Nair, DNV GL	Mohsen Shavandi, DNV GL
Ben Parker, DNV GL	Nicholas Alexiades, UL
Bill Taylor, UL	Paul Hebert, Chevron
Charlie Shull, Shell	Rick McCoy, WT Offshore
Chong Sun Ngen, Murphy	Roland Goodman, API
Evan Zimmerman, OOC	Shashikant Sarada, DNV GL
Holly Hopkins, API	Stephanie Kusinski, OOC
Jason Boutelis, UL	Steve Frantz, Independent
Jerilyn Merrill, UL	Thad Dunham, IADC
Jesse Balboa, Occidental Petroleum	Wanda Parker, WJP Enterprises



4.2 OOC Referenced Standards Workgroup Recommendations

The OOC Referenced Standards Workgroup discussed each submitted comment, which was then combined with the list of recommended standards to be reviewed from the Workshop and, if consensus was reached, add the recommended standard to the list. The categories include:

- A. Remove – Labeled 1R – 6R in Table 4
- B. Update – Labeled 1U – 18U in Table 5
- C. Add – Labeled 1A – 11A in Table 6

The priority levels are:

- A. High – Needs to be worked on immediately
- B. Medium – Needs to be updated when possible
- C. Low – Not an urgent update

Note: The focus of the 2020 effort was on review of standards from the standard setting organizations accredited by the American National Standards Institute (ANSI). Several standards from non-ANSI accredited organizations were discussed but are not included in this output document based on guidance from BSEE.



4.3 Standards to be Removed

Table 4 lists the Referenced Standards that are currently referenced in the BSEE CFR, which need removal for the reasons listed in the table. In several cases, the recommended removal is correlated to addition of a different standard. As an example, reference 1R is recommended to be removed since it has been withdrawn by API and reference 2U and 4U have been identified for updating

Table 4: Referenced Standards to be Removed from BSEE CFR

	Standard	Priority	Reason
1R	API BULLETIN 2INT-DG (2007)	High	Withdrawn by API; superseded by 2A-WSD 22nd edition and 2FPS 2nd edition, 2T 2nd edition (which are listed for recommended updates)
2R	API BULLETIN 2INT-EX (2007)	High	Withdrawn by API; superseded by new API standards RP 2SIM, 2FSIM, 2MIM and 2RIM 1st editions (which are listed as recommended additions)
3R	API BULLETIN 2INT-MET (2007)	High	Interim document withdrawn by API, superseded by RP2MET, 2nd Edition, which is recommended as an addition
4R	API Spec 16A – 4th Edition (2017) Errata (2018)	High	API Std 53 requires equipment manufactured to API 16A, C & D. CFR does not need to reference API 16A, C & D as the regulations already reference API Std 53. To assure consistency and to avoid cross-reference inconsistency.
5R	API Spec 16C – 2nd Edition (2015) Addendum (2016)	High	API Std 53 requires equipment manufactured to API 16A, C & D. CFR does not need to reference API 16A, C & D as the regulations already reference API Std 53. To assure consistency and to avoid cross-reference inconsistency.
6R	API Spec 16D – 3rd Edition (2018)	High	API Std 53 requires equipment manufactured to API 16A, C & D. CFR does not need to reference API 16A, C & D as the regulations already reference API Std 53. To assure consistency and to avoid cross-reference inconsistency.



4.4 Standards to be Updated

Table 5 represents the referenced standards which need to be updated to a newer edition of the standard. The currently listed standard edition is outdated due to newer technologies available or lessons learned. The incorporation of newer editions will allow BSEE and industry to eliminate the routine Alternative Compliance requests to use a more recent edition. Note: In Table 5, when listing the incorporated standards, only the last date of the standard, or addendum, or errata currently listed in the CFR is used.

Table 5: Referenced Standards to be Updated in BSEE CFR

	Standard Currently Referenced in the CFR	Proposed Edition	Priority	Reason
1U	ACI 318-19 (1995)	ACI 318-19 (2019)	Medium	The edition referenced in CFR is outdated.
2U	API RP 2A-WSD – 21st Edition	API RP 2A-WSD – 22nd Edition (2014)	High	Applicable to new fixed platforms. Note: It is recommended that BSEE also allows continued use of the 21 st Edition for existing platforms that were designed under previous editions, especially for the re-use of existing platforms at its original location for another purpose.
3U	API RP 2D – 6th Edition (2007)	API RP 2D – 7th Edition (2015)	High	The edition in CFR is outdated, new edition developed with lessons learned and newer technology in mind. 7th Edition (API RP 2D) to be incorporated; Note: if 8th Edition is available, incorporate 8th Edition (expected in 2020)
4U	API RP 2FPS – 1st Edition (2001)	API RP 2FPS - 2nd Edition (2011)	High	The edition referenced in CFR is outdated; new edition developed with lessons learned and newer technology in mind. Compliance with current standard requires both BSEE and industry to process Alternative Compliance request.
5U	API RP 2RD – 1st Edition (2009)	API Std 2RD – 2nd Edition (2013)	High	Document updated from a RP to Std. RP has been withdrawn by API. The CFR is outdated, new edition developed with lessons learned and newer technology in mind.



6U	API RP 2SM – 1st Edition (2007)	API RP 2SM – 2nd Edition (2014)	High / Medium	The edition referenced in CFR is outdated, compliance with current standard requires both BSEE and industry to process Alternative Compliance request. New document incorporates the latest understanding of polyester rope behavior and learnings.
7U	API RP 2T – 2nd Edition (1997)	API RP 2T – 3rd Edition (2015)	High	The edition referenced in CFR is outdated, new edition developed with lessons learned and newer technology in mind. Compliance with current standard requires both BSEE and industry to process Alternative Compliance request.
8U	API RP 14F – 5th Edition	API RP 14F – 6th Edition (2018)	Medium	The edition referenced in CFR is outdated, new edition developed with lessons learned and newer technology in mind. Compliance with current standard requires both BSEE and industry to process Alternative Compliance request.
9U	API RP 75 – 3rd Edition (2008)	API RP 75 – 4th Edition (2019)	High	The edition referenced in CFR is outdated, new edition developed with lessons learned and provides a better overall basis for SEMS plans. Compliance with current standard may require both BSEE and industry to process Alternative Compliance request.
10U	API Spec 2C – 6th Edition (2004)	API Spec 2C – 7th Edition (2013)	High	The edition referenced in CFR is outdated, new edition developed with lessons learned and newer technology in mind. Compliance with current standard requires both BSEE and industry to process Alternative Compliance request. 7th Edition to be incorporated; Note: if 8th Edition is available, incorporate 8th Edition (expected in 2020)
11U	API Spec 6A – 20th Edition (2016)	API Spec 6A – 21st Edition (2020)	High	The edition referenced in CFR is outdated, new edition developed with lessons learned and newer technology in mind. Compliance with current standard requires both BSEE and industry to process Alternative Compliance request.



12U	API Spec 6AV1 – 2nd Edition (2013)	API Std 6AV1 – 3rd Edition (2014)	High	Document updated from a RP to Std. RP has been withdrawn by API. The CFR is outdated, new edition developed with lessons learned and newer technology in mind.
13U	API Spec 6D – 23rd Edition (2009)	API Spec 6D – 24th Edition (2014)	High	The edition referenced in CFR is outdated, new edition developed with lessons learned and newer technology in mind. Compliance with current standard requires both BSEE and industry to process Alternative Compliance request.
14U	API Spec 17J – 3rd Edition (2008)	API Spec 17J – 4th Edition (2017)	Medium	The edition referenced in CFR is outdated, new edition developed with lessons learned and newer technology in mind. Compliance with current standard requires both BSEE and industry to process Alternative Compliance request.
15U	API Std 53 – 4th Edition (2012)	API Std 53 – 5th Edition (2018)	High	The edition referenced in CFR is outdated, new edition developed with lessons learned and newer technology in mind. Compliance with current standard requires both BSEE and industry to process Alternative Compliance request.
16U	ASME BPVC- Section VIII (2017)	ASME BPVC- Section VIII (2019)	High	All fabricators are using the most current edition. BSEE CFR references outdated version.
17U	AWS D1.1:2000 – 17th Edition (1999)	AWS D1.1:2010 – 22nd Edition (2010)	Low	The edition referenced in CFR is outdated, compliance with current standard requires both BSEE and industry to process Alternative Compliance request.
18U	COS 2-03 – 1 st Edition (2012)	COS 2-03 – 2nd Edition (2020)	Medium	The new edition incorporates lessons learned and improves the performance based continual improvement cycle, which is the intent of the regulation.



4.5 Standards to be Added

Table 6 lists the Referenced Standards which are not currently in the BSEE CFR but should be to increase safety and efficiency.

Table 6: Referenced Standards to be Added to BSEE CFR

	Standard	Priority	Reason
1A	API RP 1111 – 5th Edition (2015)	High	RP is currently included referenced in BSEE NTL 2009-G28 for the calculation of internal pressure. Utilized by operators and recognized by BSEE, incorporation will avoid the need for an Alternative Compliance request.
2A	API RP 2A-LRFD	Medium	Major update to 1st edition (1993) with significant changes, encourages LRFD approach for GOM fixed structures. The structural design practices are evolving towards a Load Resistance Factor Design.
3A	API RP 2FSIM – 1st Edition (2019)	High	Provides industry framework / first industry RP for continued service for floaters / TLPs. There is no referenced standard in regulation for the assessment and life extension of floating platforms.
4A	API RP 2GEO – 1st Edition (2011) with Addendum 1 (2014)	High	This document provides the best geotechnical technology and recommendations to be used for offshore platform design, repair, and modification. If new design standards (2A, 22nd Edition) are adopted in regulation, then this geotechnical standard needs to be adopted at the same time. Foundation design considerations previously provided in RP2A are now in 2GEO.
5A	API RP 2MET – 2nd Edition (2019)	High	Currently used by operators - This document provides the best Environmental technology and recommendations to be used for offshore platform design, repair, modification, assessment and is essential for HSE. Current regulations (via API RP 2A-WSD, 21st Edition and API Bulletin 2INT-MET) reference outdated metocean criteria for the design and assessment of offshore structures.
6A	API RP 2MIM – 1st Edition (2019)	High	Provides industry framework / first industry RP for continued service – moorings. There is no referenced standard in regulation for the assessment and life extension of mooring systems for floating platforms.
7A	API RP 2N – 3rd Edition (2015)	Medium	Future operation in arctic and subarctic US waters will need this document. (Scope beyond GOM)
8A	API RP 2RIM – 1st Edition (2019)	High	Provides industry framework / first industry RP for continued service risers. There is no referenced standard in regulation for the assessment and life extension for risers on floating platforms.



9A	API RP 2SIM - 1st Edition (2014)	High	This document works together with API RP 2A and API RP 2FSIM. Replaces RP 2A-WSD Section 17 governing continued service for fixed platforms. Current regulations (via API RP 2A-WSD, 21st Edition and API Bulletin 2INT-EX) reference outdated inspection and assessment criteria and methodology for fixed platforms.
10A	API RP 2TOP – 1st Edition (2019)	Medium	This is a new document focused on design, fabrication, transportation, installation, modification, and structural integrity management for platform topside structures. Complements API 2A-WSD, API 2A-LFRD, API 2 FPS, API 2 T and API 2N.
11A	API Std 2CCU – 1st Edition (2017)	High	API 2CCU is the sister document to API 2C and API 2D, which are already incorporated by reference in the CFR. Currently in the Gulf of Mexico and other US waters, all operators handle lifting equipment requirements utilizing a myriad of different standards. There is no guidance for below the hook hardware (Cargo Containers and Lifting Sets) that are used for repeated use offshore.



5 Next Steps

The next steps of the process will continue to include broad stakeholder involvement and will include:

1. Broad SME comment to draft of *Recommended Modernization of Referenced Standards in BSEE CFR*. The objective of the review should be focused on the current content and not adding additional scope. If new scope is identified, it will be reviewed during a similar effort in the 2021 calendar year
2. OOC Referenced Standards Workgroup review of comments and produce final *Recommended Modernization of Referenced Standards in BSEE CFR* document
3. Final document issued for use by stakeholders

After the 2020 final document is issued, this OOC Referenced Standards workgroup will look to offer the following support and continued activity:

- Assist BSEE, as requested, with technical guidance related to the modernization of these standards
- Convene in early 2021 to review the BSEE effort and provide additional input on the completion of the 2020 effort
- Perform a similar effort in 2021 and support the process on an annual basis



Appendix A: List of Currently Referenced Standards in the BSEE CFR

1	ACI Standard 318-95	46	API MPMS 9.1	91	API RP 500
2	ACI 318R-95	47	API MPMS 9.2	92	API RP 505
3	ACI 357R-84	48	API MPMS 10.1	93	API RP 2556
4	AGA Report No. 7	49	API MPMS 10.2	94	API Specification 2C
5	AGA Report No. 9	50	API MPMS 10.3	95	API Specification 6A
6	AGA Report No. 10	51	API MPMS 10.4	96	API Specification 6AV1
7	AISC 360-05	52	API MPMS 10.9	97	API Standard 6AV2
8	ASME BPVC I	53	API MPMS 11.1	98	API Specification 6D
9	ASME BPVC IV	54	API MPMS 11.2.2A	99	API Specification 11D1
10	ASME VIII D1	55	API MPMS 11.1	100	API Specification 14A
11	ASME VIII D2	56	API MPMS 12.2.1	101	API Specification 16A
12	ASME B 16.5-2003	57	API MPMS 12.2.2	102	API Specification 16C
13	ASME B 31.8-2003	58	API MPMS 12.2.3	103	API Specification 16D
14	ASSP Z88.2-1992	59	API MPMS 12.2.4	104	API Specification 17D
15	API 510	60	API MPMS 14.3.1	105	API Specification 17J
16	API 570	61	API MPMS 14.3.2	106	API Specification Q1
17	API Bulletin 2INT-DG	62	API MPMS 14.3.3	107	API Standard 53
18	API Bulletin 2INT-EX	63	API MPMS 14.5	108	API Standard 65—Part 2
19	API Bulletin 2INT-MET	64	API MPMS 14.6	109	API Standard 2552
20	API Bulletin 92L	65	API MPMS 14.8	110	API Standard 2555
21	API MPMS 1	66	API MPMS 20.1	111	ASTM Standard C 33-07
22	API MPMS 2.2A	67	API MPMS 21.1	112	ASTM Standard C 94/C
23	API MPMS 2.2B	68	API MPMS 21.2	113	ASTM Standard C 150-07
24	API MPMS 3.1A	69	API MPMS 21.2A	114	ASTM Standard C 330-05
25	API MPMS 3.1B	70	API RP 2A-WSD	115	ASTM Standard C 595-08
26	API MPMS 4.1	71	API RP 2D	116	AWS D1.1:2000
27	API MPMS 4.2	72	API RP 2FPS	117	AWS D1.4-98
28	API MPMS 4.4	73	API RP 2I	118	AWS D3.6M:1999
29	API MPMS 4.5	74	API RP 2N	119	NACE Standard MR0175-2003
30	API MPMS 4.6	75	API RP 2RD	120	NACE Standard RP0176-2003
31	API MPMS 4.7	76	API RP 2SK	121	ISO/IEC 17011
32	API MPMS 4.8	77	API RP 2SM	122	ISO 17021-1
33	API MPMS 5.1	78	API RP 2T	123	COS-2-01
34	API MPMS 5.2	79	API RP 14B	124	COS-2-03
35	API MPMS 5.3	80	API RP 14C	125	COS-2-04
36	API MPMS 5.4	81	API RP 14E		
37	API MPMS 5.5	82	API RP 14F		
38	API MPMS 5.8	83	API RP 14FZ		
39	API MPMS 5.6	84	API RP 14G		
40	API MPMS 6.1	85	API RP 14J		
41	API MPMS 6.6	86	API RP 17H		
42	API MPMS 6.7	87	API RP 65-1		
43	API MPMS 7	88	API RP 75		
44	API MPMS 8.1	89	API RP 86		
45	API MPMS 8.2	90	API RP 90		