

1	Scope	General		Add: This specification shall be used for special-purpose applications (as defined in API 614). For general-purpose applications use IOGP S-744.	Not Accepted: Per instructions from SOME, IOGP standards must not be referenced within API standards since that would introduce contradictions.	Chevron overlay	Chevron
	1 Note	Editorial	Integrate this note into the scope statement. By integrating this note into the scope, we will then be able to eliminate some of the clunky notes and footnotes in Table 3.	Update the wording in the scope section as follows and delete the note. Updated wording below: API 614 covers the minimum requirements for lubrication systems, oil-type shaft-sealing systems, oil-control systems, and auxiliaries, excluding dry gas seal systems and fuel systems. These systems can serve individual equipment such as compressors, gears, pumps, and drivers or complete trains. API 614 does not apply to dry gas seal systems (refer to API 692) or high-pressure oil systems and fuel systems used on gas turbines (refer to API 616).	Accepted.	Zack Zalesky	Chevron
6	Table 6	Technical	doesn't permit graphite in gasket material, but we're getting pushback from some users on this item saying it's impractical since graphite is a common filler in spiral wound gaskets and is frequently found in end user piping specs. Did we capture the intent correctly? Did whoever introduced this requirement intend to eliminate only graphite sheet gaskets? Due to the wording, there's also confusion on whether this requirement only applies to 300# and below vs. 600# and higher.		Accepted in Principle: Revised wording for "Flanged gaskets:: For 300# flanges added Compressed sheet-type gaskets containing graphite are not permitted due to their tendency to contaminate the oil stream by shedding graphite particles . For 600# flanges added All spiral-wound gaskets shall have . . .	Eric McKendry	Cobey

6.1	6.10	Technical	Section 6.10 and Annex C (Figures C.20A–C.20D) requires that vendors supply individual transfer valves, and specifies functional and material requirements. In practice, two design approaches are observed in the industry: Independent assembly: Transfer valves are supplied as complete, standalone assemblies with their own steel bodies, bolted to the vessel nozzles. Integrated design: Portions of the transfer valve (e.g., seating features or body inserts) are cast, forged, or machined as part of the pressure vessel itself, with the remaining valve body attached to this integrated section. Because the text does not explicitly prohibit the second approach, differing practices have emerged. This creates uncertainty for operators regarding maintainability, interchangeability, inspection access, and long-term reliability. However, the wording does not explicitly forbid partial integration of transfer valve components into the filter or heat exchanger pressure vessel.	Proposed change - Revise Section 6.10.1: “Transfer valves shall be supplied as discrete, standalone assemblies with their own pressure-retaining steel body. No pressure-retaining or seating feature of a transfer valve shall be cast, forged, or machined as part of a filter or heat exchanger pressure vessel. Transfer valves shall be bolted to vessel nozzles or spools such that complete valve replacement can be performed without modification to the pressure vessel.” Technical justification: Section 6.10.1 states that the vendor shall supply individual transfer valves, which implies discrete assemblies. Annex C Figures C.20A–C.20D are explicitly titled “...with Separate, Continuous-flow Transfer Valves” and illustrate independent valve assemblies. Section 6.10.4 requires that “transfer valves shall have steel bodies,” which presumes the valve body is a distinct, standalone, pressure-retaining component. Allowing integrated designs undermines maintainability, interchangeability, and inspection, and may compromise reliability over the equipment lifecycle. Clarification aligns with API’s broader philosophy of modularity, safety, and serviceability in lubrication systems, ensuring consistent interpretation across manufacturers and end users.	Agreed in Principle: deleted “The vendor shall supply individual transfer valves . . . TF determined section 6.10 as written already meets other suggested changes.	Shad Rasheed	TM Filters B.V.
6.3		Technical	Pressure design code	Unless it is specified by the user, Pressure vessel, piping and pressure components shall comply with GB(China) standard and corresponding grades, normally without the requirement of steel stamp.	Not accepted: para 6.3.1 already allows purchaser to specify alternate pressure vessel codes, when preferred, and 6.3.3 gives purchaser option to select code stamping, when preferred.		Huali (China)
7	Tables 3 - 6	Technical	make 316 minimum requirement for tubing & tube fittings	Delete “304 or” in each table.	Accepted, applied change to tubing material as well.	Chevron overlay	Chevron
7.6		Technical	Intercooler and Aftercoolers	Process intercoolers and aftercoolers are not applicable to the lube oil system. Recommendation is to delete sections.	Not accepted; Intercooler and Aftercooler section is part of 614 as a result of a prior SOME mandate.		Sundyne
10.5		Technical	Add new section: 10.5 Nameplates and Tagging	Add new section: 10.5 Nameplates and Tagging	Not Accepted; nameplates and tags are already described in this standard.		Shell
10.1.2		Editorial	Since this is already a bulleted requirement, consider deleting “if specified.”	Delete “if specified.”	Accepted.	Zack Zalesky	Chevron
10.2.1		Technical	As written, 10.2.1 does not contain a “shall” statement and thus is not a requirement. Consider rephrasing to create a requirement.	Consider rephrasing 10.2.1 so that it is a requirement.	Accepted.	Zack Zalesky	Chevron

10.2.4		Editorial	This paragraph currently has two "shall" statements. To comply with the API style guide it will either need to be broken up into two paragraphs or rephrased to eliminate one of the "shall" statements. The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Consider rephrasing 10.2.4 as follows to eliminate the "unless otherwise specified" and a second "shall" statement. "10.2.4 The vendor shall prepare and distribute an agenda prior to this meeting, which, as a minimum, includes a review of the following items: [...]"	Accepted.	Zack Zalesky	Chevron
10.2.4 f)	NOTE	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider deleting this note, since it is tutorial in nature. The content of this note is common knowledge	Delete the note.	Not accepted; the note is not a technical tutorial but instead a guide for using the Annex.	Zack Zalesky	Chevron
10.3.2.1 b)		General	Drawings indicated on the VDDR form (see Annex D) shall be included in the proposal and, as a minimum, will include the following: . . . b) cross-sectional drawings showing the details of the proposed equipment.	Cross sectional drawings will be provided only when made available by component manufacturers.	Accepted in Principle, will add "when available". TF Note: check VDDR for consistency.		Cobey
10.3.2.3.2		Editorial	Since this is already a bulleted requirement, consider deleting "if specified by the purchaser."	Delete "if specified specified by the purchaser."	Accepted.	Zack Zalesky	Chevron
10.3.2.3.3		Editorial	Since this is already a bulleted requirement, consider deleting "if specified by the purchaser."	Delete "if specified specified by the purchaser."	Accepted.	Zack Zalesky	Chevron
10.4.3.2		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
10.4.4		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
10.4.4		Technical	Subsection 10.4.4 contains a single bulleted paragraph without a paragraph number. While compliant with the style guide it reads a little strange. Consider creating a second requirement (so that 10.4.4.1 and 10.4.4.2 could be used) or delete the subsection and move the requirement into 10.4.1 - General	Consider deleting subsection 10.4.4 and moving the requirement into subsection 10.4.1 - General or creating a subsequent paragraph in 10.4.4 so that the requirements can then be numbered 10.4.4.1 and 10.4.4.2.	Accepted.	Zack Zalesky	Chevron
10.4.5.2.1		Editorial	As written this subparagraph does not contain a "shall" statement and is not enforceable. Consider converting "should" to "shall."	Consider converting "should" to "shall."	Accepted.	Zack Zalesky	Chevron
10.4.6.2.1		Editorial	As written, this paragraph currently contains two "shall" statements. To comply with the API style guide this paragraph will need to be broken into two paragraphs. Consider removing the allowance for the installation manual to be issued separate from the operating and maintenance manual, since this is in conflict with 10.4.6.2.2 f).	Consider adopting the below wording as 10.4.6.2.1 and 10.4.6.2.2 NEW. The paragraph currently numbered 10.4.6.2.2 will need to be renumbered as 10.4.6.2.3. "10.4.6.2.1 All information required for the proper installation of the equipment shall be compiled in a manual. 10.4.6.2.2 This manual shall be issued no later than the time of issue of final certified drawings."	Accepted.	Zack Zalesky	Chevron

10.4.6.2.2		Editorial	To comply with the API style guide (reference API style guide Annex G, Table G.1), eliminate the "nested" shall statements in 10.4.6.2.2 f) and 10.4.6.2.2 g), as nested "shall" statements in lists are not recommended.	Consider adopting the updated wording below for 10.4.6.2.2 f) and 10.4.6.2.2 g). "10.4.6.2.2 f) all drawings and data specified in 10.4.2 and 10.4.3 that are pertinent to proper installation; 10.4.6.2.2 g) one extra manual, over and above the specified quantity, is included with the first equipment delivered.	Accepted.	Zack Zalesky	Chevron
10.4.6.4.2		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
10.5.1.1		Technical	per existing industry best practice.	Nameplates shall be affixed with Type 316 stainless steel rivets or screws.	Not Accepted; nameplates and tags are already described in this standard.		Shell
10.5.1.2		Technical	per existing industry best practice.	Nameplates shall be Type 316L stainless steel.	Not Accepted; nameplates and tags are already described in this standard.		Shell
10.5.1.3		Technical	Experience has demonstrated that illegibility causes problems.	The nameplate information shall be stamped or engraved.	Not Accepted; nameplates and tags are already described in this standard.		Shell
10.5.2		Technical	Add new section: 10.5.2 Tag Plates	Add new section: 10.5.2 Tag Plates	Not Accepted; nameplates and tags are already described in this standard.		Shell
10.5.2.1		Technical	per existing industry best practice.	Tag plates shall be Type 316 stainless steel.	Not Accepted; nameplates and tags are already described in this standard.		Shell
10.5.2.2		Technical	per existing industry best practice.	Tag plates shall be affixed with Type 316 stainless steel rivets or screws.	Not Accepted; nameplates and tags are already described in this standard.		Shell
10.5.2.3		Technical	Experience has demonstrated that illegibility causes problems.	The tag plate information shall be stamped or engraved.	Not Accepted; nameplates and tags are already described in this standard.		Shell
3.1.1		Editorial	Wording for the definition differs slightly from standard paragraphs. Consider updating to match standard paragraphs.	Update the definition to match standard paragraphs. Wording from standard paragraphs reproduced below. "preset value of a measured parameter at which an alarm is activated to warn of a condition that requires corrective action"	Accepted.	Zack Zalesky	Chevron
3.1.1	Note	Editorial	The content of this note is tutorial in nature and most users are familiar with API 670 as the governing standard for machinery protection. Based on the current practice from the SOME, consider deleting.	Delete this note since it is tutorial in nature.	Accepted.	Zack Zalesky	Chevron
3.1.25		Editorial	Wording for the definition differs slightly from standard paragraphs. Consider updating to match standard paragraphs.	Update the definition to match standard paragraphs. Wording from standard paragraphs reproduced below. "point at which usual operation is expected and optimum efficiency is desired. This point is usually the point at which the vendor certifies that performance is within the tolerances stated in this standard. "	Accepted	Zack Zalesky	Chevron
3.1.46		Editorial	The term used does not match standard paragraphs. (term listed in 614 is "shutdown point," while standard paragraphs uses "shutdown set point"). Change the defined term to align with standard paragraphs.	Change from "shutdown point" to "shutdown set point" to align with standard paragraphs.	Accepted	Zack Zalesky	Chevron

3.1.46	Note	Editorial	The content of this note is tutorial in nature and most users are familiar with API 670 as the governing standard for machinery protection. Based on the current practice from the SOME, consider deleting.	Delete this note since it is tutorial in nature.	Accepted	Zack Zalesky	Chevron
3.1.46		Editorial	The wording used for the definition differs slightly from standard paragraphs. Consider adopting the wording used in standard paragraphs.	Update the definition to match standard paragraphs. Wording from standard paragraphs reproduced below. "preset value of a measured parameter at which automatic or manual shutdown of the system or equipment is required"	Accepted	Zack Zalesky	Chevron
3.1.50	NOTE 1, NOTE 2	Editorial	To reduce the number of notes and improve readability (as directed by the SOME) combine the contents of NOTE 1 and NOTE 2 into a single note.	Consider using the updated note below (condensing NOTE 1 and NOTE 2 into a single note) "NOTE A stilling tube is typically used for non-pressurized returns and has an open top or vent holes to equalize to reservoir pressure. (refer to Figure C.23)."	Accepted	Zack Zalesky	Chevron
4.7.2	Table 2	Technical	Add Configuration Code to Table 2 for Rotary Lobe Blowers		Not Accepted; minimum oil system standards will no longer be included in 614 and will be located instead within their respective standards.		Everllence
4.7.2	Table 1	Technical	we think there's confusion related to the omission of PV1/PV1B when PV2/PV2B are chosen. In many cases we think it would be appropriate to have both since they are separate decisions. So, a 'special purpose' system should generally havePV1B-PV2B....., but none the the examples from the standard show it this way.	Discuss value of changing Standard Configuration Options to facilitate including both PV1(B) & PV2(B) in an oil system.	Accepted; added descriptions to Table 1 for clarification. TF Note: revise schematics in Annex C to include <i>both</i> PV1B & PV2B for special-purpose systems.		Cobey
4.7.2	Table 1	Editorial	Consider including additional wordind in the "additional note" column to improve the clarity for code R0.	Adopt the following wording in the "additional note" column for code R0. "This designation applies to a reservoir that is part of an equipment item in the train, e.g., gear case or reciprocating compressor crank case."	Accepted.	Mehdi Afzali	BP
4.7.2	Table 1	Editorial	Consider including additional wordind in the "additional note" column to improve the clarity for code R1.	Adopt the following wording in the "additional note" column for code R1. "This designation applies to reservoirs that are standalone and reservoirs that are either installed or integrated in the baseplate."	Accepted in principle;	Mehdi Afzali	BP
4.7.2	Table 1	General	Consider including additional wordind in the "additional note" column to improve the clarity for code BP1.	Adopt the following wording in the "additional note" column for code BP1. "This designation applies to consoles that are installed in (drop in type) or integrated in the main equipment baseplate, typically used for an offshore application."	Accepted.	Mehdi Afzali	BP

5.3.1	NOTE	Editorial	While a true statement, this note is fairly tutorial in nature. To comply with the current guidance from the SOME. Consider deleting the note.	Delete the note.	Accepted	Zack Zalesky	Chevron
5.3.2	NOTE	Editorial	The bounds of the EEA are well known and available outside of this standard. Delete this note (to align with other standards which are removing it during this revision).	Delete the note.	Accepted	Zack Zalesky	Chevron
5.4.1	NOTE	Editorial	This note is tutorial in nature. Consider deleting this note to comply with the current guidance from the SOME.	Delete the note.	Accepted	Zack Zalesky	Chevron
5.4.2	NOTE 1	Editorial	This note is tutorial in nature. Consider deleting this note to comply with the current guidance from the SOME.	Delete the note.	Accepted	Zack Zalesky	Chevron
6.1.12.1		General		[Add] Unless otherwise specified, the maximum sound pressure level at any location 1 m (3 ft) from the oil console shall not exceed 85 dBA. Noise requirements shall be provided in the data sheets, project specifications, or technical requirements. Supplier shall provide expected and/or guaranteed noise levels expressed in both units of sound pressure level and sound power level.	Accepted in principle, will change to bulleted paragraph.		Chevron
6.1.13		General	Recommend new requirement.	(New) Each connection that the Purchaser interfaces with shall be stamped or tagged with a unique letter or number designation. The tie point connection designations shall also appear on the Supplier's drawings.	Not accepted, see paragraph 9.4.24 which addresses tagging of customer connections.		KBR
6.1.13		Technical	New para	Adequate clearances shall be provided for the addition of insulation where required.	Will adopt paragraph 8.5 from API 692, Part 1: [bullet] Purchaser shall specify any special provisions for insulation or heat tracing.	Overlay	Motiva
6.1.13		Technical	New para	Add] 6.1.13 All maintainable items internal to the lube oil reservoir shall be removable without the need to drain the reservoir. This includes pumps, non-return valves (NRV), strainers, and immersion heaters.	Not accepted; maintainable items are already addressed in this standard.	Chevron overlay	Chevron
6.1.14.1		Technical	Recommend new requirement.	6.1.14.1 (New) The use of aluminum and copper components, fittings, nameplates, which will be subjected to atmospheric exposure is prohibited, unless approved by the Purchaser.	Accepted in principle; will adopt 692 Part 3, para 13.4		KBR
6.1.14.2		Technical	Recommend new requirement.	6.1.14.2 (New) The use of ASTM A515 steel (all grades) for all pressure retaining components and piping is prohibited. Low-carbon steels can be notch sensitive and susceptible to brittle fracture at ambient or low temperatures. Therefore, only fully killed, normalized steels made to fine-grain practice are acceptable.	Not accepted; not generally applicable to oil systems components.		KBR
6.1.14.3		Technical	Recommend new requirement.	The use of asbestos is prohibited.	Not accepted; not generally applicable to oil systems components.		KBR
6.1.14.4		Technical	Recommend new requirement.	All 300 series austenitic stainless steels shall be low-carbon grade.	Not accepted; overly broad restriction for all components within an oil system.		KBR
6.1.14.5		Technical	Recommend new requirement.	The use of series 300 stainless steel and equivalent materials is prohibited for bolting.	Not accepted; overly broad restriction for all bolting material possibilities.		KBR

6.1.2		General	Recommend new text, for clarity.	The period of uninterrupted continuous operation, during which time the equipment should not require shut down to perform maintenance or inspection, shall be the same as that for the equipment the system serves.	Not accepted; will use SP text.		KBR
6.1.2	NOTE 1, NOTE 2	Editorial	Delete NOTE 1 and NOTE 2 to comply with the current guidance from the SOME. While indeed a true statement, these notes provides no additional clarity or further guidance to successfully design the system.	Delete NOTE 1 and NOTE 2.	Accepted	Zack Zalesky	Chevron
6.1.3, 6.1.3.1, 6.1.3.2		Editorial	The wording in this section differs from what was adopted in standard paragraphs. Consider adopting the wording from standard paragraphs.	Replace the wording in 6.1.3, 6.1.3.1, and 6.1.3.2 (including the notes) to match the wording from standard paragraphs. 6.1.1.1 - 6.1.1.3. Wording from standard paragraphs shown below: "6.1.1 [●] Only equipment that is field proven, as defined by the purchaser, is acceptable. NOTE - Purchasers can use their engineering judgment in determining what equipment is field proven. API RP 691 can provide guidance. 6.1.2 [●] If specified, the vendor shall provide the documentation to demonstrate that all equipment and auxiliaries proposed qualifies qualify as field proven. 6.1.3 In the event that no such equipment is available, the vendor shall submit an explanation of how their proposed equipment can be considered field proven. NOTE - A possible explanation method of qualifying can be that all components comprising the assembled machine satisfy the field proven definition."	Accepted	Zack Zalesky	Chevron
6.1.5		Technical		[Add] Unless otherwise specified, the oil system shall be suitable for unsheltered outdoor installation and operation over the specified range of ambient temperatures.	Not accepted; already addressed in this standard.		Chevron
6.1.6		Editorial	Recommend new text, for clarity.	Unless otherwise specified, the equipment, including all auxiliaries, shall be suitable for outdoors installations, without a roof.	Not accepted; already addressed in this standard.		KBR
6.1.8	NOTE	Editorial	Consider deleting this note. It is tutorial in nature and since the "site and utility data sheet" has been part of API 614 since the previous edition, there is less of a driver to maintain this note.	Delete the note. If the TF believes that a similar note is still needed, consider using the below verbiage: ""The Site and Utility Data Sheet is shown in Annex A.1".	Accepted	Zack Zalesky	Chevron
6.1.8.9		Technical	618 TF is deleting the cooling water temp table, referring to 614. However 6.1.8.9 (and .10 & .11) is under 6.8 "LUBE-OIL Heat exchangers"	break out those 3 paragraphs into something like "cooling water characteristics"	Not accepted; technically unpersuasive.	Travis	
6.10.3 d)		Technical	New para	For systems with a pressure rating of ASME rating class 900 and higher, transfer valves shall have a double block and bleed arrangement.	Not accepted; already addressed by para. 6.2.18 (bulleted para.)		Motiva Overlay

6.10.4		Technical	Requiring steel bodies for transfer valves seems redundant based on para 6.2.14. If there is a concern that 6.2.14 only calls out valves (not transfer valves), consider adding transfer valves to the list in 6.2.14 and deleting 6.10.4.	Consider deleting 6.10.4. If there is a concern that users won't associate transfer valves with "valves" as referenced in 6.2.14, consider adding "transfer valves" to the list in 6.2.14 to eliminate any potential confusion.	Accepted in Principle; deleted 6.10.4	Zack Zalesky	Chevron
6.10.6		Technical	revise	(Substitute) Spectacle blinds shall be provided for flange ratings ASME Class 600 and above.	Not accepted, since purchaser can specify (bulleted para) if spectricle blinds are required and if so, for which flange ratings.		KBR Overlay
6.10.6		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.10.7		Technical	New para: This requirement makes it clear to operators and other personnel which item is in service.	The transfer valve shall include a permanently affixed indication of the equipment in service.	Not accepted since transfer valve design already indicates the flow direction.		Shell
6.11.1		Technical	New para	At minimum, a DN 50 (2 in) sized connection shall be included on the top of a horizontal pipe run near the console outlet. The connection shall be flanged and shipped with a blind flange installed with bolts and gaskets that match the project pipe specifications.	Accepted in principle, will add bulleted para "provisions for connection" including check valve, to para. 6.11.5.		Motiva Overlay
6.11.1 6.11.5		Technical	An accumulator shall be provided if it is needed to maintain the turbine control-oil pressure during servo control transients or to maintain lube- or seal-oil pressure while the standby pump accelerates from an idle condition to operating speed. If required by 6.11.1, the accumulator mounting location shall be as follows	Who shall / can decide the requirement of an Accumulator (whether Purchaser or Oil unit manufacturer or End user) ? Especially for 2 x Motor driven pumps on the Lube oil skid, at the initial stage of the project, how can we decide if an Accumulator is required or not.. Can the pressure drop be calculated (manually) during the changeover from one Pump to the other, thereby confirming that an Accumulator is required or not.	Accepted in principle, added transient and normal flow to 6.11.1 and separate bulleted options for purchaser to specify accumulator.	MATHEW C.T.	ENPRO INDUSTRIE S PVT. LTD (INDIA)
6.11.13		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.11.13	NOTE	Editorial	To comply with SOME's directive to reduce the number of technical notes, consider deleting this note as it is tutorial in nature.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.11.16	NOTE 1	Editorial	To comply with SOME's directive to reduce the number of technical notes, consider integrating the content of NOTE 1 into the requirement.	Consider adopting the following updated wording for 6.11.16 and deleting NOTE 1. "6.11.16 To avoid the risk of shutdown due to large oil pressure swings during accumulator draining or filling while the machine is operating, provisions shall be included to allow for controlled filling and draining of the accumulator."	Accepted.	Zack Zalesky	Chevron
6.11.17		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.11.18		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

6.11.19		Technical	To comply with SOME's directive to reduce the number of technical notes, consider converting NOTE 1 and NOTE 2 into subparagraphs (6.11.19.1 and 6.11.19.2, respectively).	Consider adopting the updated wording shown below as 6.11.19.1 and 6.11.19.2. Delete NOTE 1 and NOTE 2. "6.11.19.1 Thermal overpressure protection of the accumulator during maintenance shall be provided. Refer to Figure C.19. 6.11.19.2 Thermal overpressure protection resulting from fire, for example if the FCV fails in the closed position, shall be provided."	Accepted.	Zack Zalesky	Chevron
6.11.2		Technical	After: bladder-type accumulator shall be provided . . .	Add . . . and shall include options b, c, and e of API 614, Figure C.18.	Accepted in principle, available options are described in Fig. C.18		Motiva Overlay
6.11.2		Technical	Replace - This is the standard size for a bladder-type accumulator.	If the required accumulator capacity is less than 150 l (40 gal), a bladder-type accumulator shall be provided (see Figure C.18).	Not accepted. Purchaser option for specifying bladder-type accumulator is given in 6.11.2		Shell
6.11.2		Technical	It is difficult to obtain bladder-type accumulators for volumes larger than 150 l (40 gal).	Add to para.: If the required accumulator capacity exceeds 150 l (40 gal), a direct-contacting-type (i.e. bladderless-type) accumulator shall be provided (see Figure C.19).	Not accepted. Purchaser option for specifying direct-contact-type accumulator is given in 6.11.3		Shell
6.11.2		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.11.20		Technical	new para	Bottom outlet connections on direct-contact accumulators shall extend at least 25 mm (1 in) inside the vessel to retain foreign matter. In addition, a flush mounted NPS 3/4 flanged and valved drain connection shall be provided.	Not accepted for lube accumulators due to difficulty of cleaning, although good practice for seal oil tanks.		KBR Overlay
6.11.20		Technical	new para	[Add] 6.11.20 (bullet) If specified, when a process simulation is performed, accumulator sizing shall consider all operating scenarios including transient conditions such as startup, normal shutdown, emergency shutdown, and standby pump swap.	Not accepted, Process simulation scope definition requires inputs from outside the scope of 614 such as driven equipment, main driver and interconnecting piping systems and is therefore more appropriately specified in the main equipment package spec.		Chevron overlay
6.11.20.1		Technical	To maintain lubrication and control-oil pressure during upset conditions.	Add new para. 6.11.20.1: For systems with motor-driven standby oil pumps, the accumulator shall provide constant lubrication and control-oil pressure for at least 5 seconds.	Not accepted; time requirements vary according to factors other than just oil pump driver type.		Shell
6.11.20.2		Technical	To maintain lubrication and control-oil pressure during upset conditions.	Add 6.11.20.2: For systems where the main equipment drivers are auto-start steam turbines with shaft-driven main oil pumps, the accumulator shall provide constant lubrication and control-oil pressure for at least 15 seconds.	Not accepted; time requirements vary according to factors other than just oil pump driver type.		Shell
6.11.20.3		Technical	permits hand cleaning of the accumulator.	Add 6.11.20.3 ; Direct-contact-type accumulators shall be equipped with flanged opening(s) to permit hand cleaning.	Accepted in principle, added 6.11.20 to include same clean-out connection as required for overhead tanks and seal head tanks. Fig. C.19 is updated accordingly.		Shell
6.11.21		Technical	assists with maintenance.	Add 6.11.21: A stainless steel nameplate with the following information shall be provided for bladder-type accumulators: a) required precharge pressure; b) normal operating oil pressure; c) MAWP.	Accepted in Principle, accumulators already have standard nameplates; but ss tag indicating pre-charge & operating pressure @ tempertures.		Shell

6.11.3		Technical	Pre-charge and check valves assist with charging the accumulator. The strainer prevents contamination of the oil system.	Replace section with: Direct-contact-type accumulators shall have a manual pre-charge valve, a check valve and a 100 mesh stainless steel element Y strainer.	Accepted in principle; will add NOTE advising clean precharge gas .		Shell
6.11.3		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.11.4	NOTE	Editorial	To comply with SOME's directive to reduce the number of technical notes, consider deleting this note as it is tutorial in nature.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.11.5		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.11.5.2	NOTE	Technical	To comply with SOME's directive to reduce the number of technical notes, consider converting the note into a subparagraph as a requirement.	Consider adopting the below wording as a new subparagraph (6.11.5.3) and deleting the note. "6.11.5.3 When necessary to maintain control-oil pressure during transient movements of hydraulic actuators, multiple accumulator systems shall be used as necessary to achieve the proper dynamic response."	Accepted in Principle; used similar wording.	Zack Zalesky	Chevron
6.11.9		Technical	revise	(Substitute) Accumulator vessels shall be made of austenitic stainless steel.	Not accepted; already offered as an option.		KBR Overlay
6.12.1 a) - f)		Editorial	I believe based on the current style guide requirements that the "shall" statements in each numbered item need to be removed and each item restructured as a statement of fact.	Consider updating 6.12.1 a) through 6.12.1 f) to statements of fact and removing the nested "shall" statements.	Accepted.	Zack Zalesky	Chevron
6.12.1 c)		Technical	Existing: Except for pressurized lube-oil rundown tanks, a level transmitter externally mounted to the tank and provided with isolation valves, a vent connection, and a valved drain.	Change to: All rundown tanks shall be provided with a level transmitter externally mounted to the tank and be provided with isolation valves, a vent connection, and a valved drain.	Not accepted, since pressurized lube-oil rundown tanks operate at full level, without an atmospheric vent.		Motiva Overlay
6.12.2.1		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.12.2.1	NOTE	Technical	To comply with SOME's directive to reduce the number of technical notes, consider converting the note into a subparagraph and renumbering the 6.12.2 accordingly.	Consider converting the note in 6.12.2.1 to a new subparagraph with the wording shown below and renumber 6.12.2 accordingly. "6.12.2.2 The coast-down period shall be determined by the equipment train supplier. The coast-down period can be affected by process controls and operational characteristics (bypass valves, recycle loops, block and vent valves, etc.)."	Accepted.	Zack Zalesky	Chevron
6.12.2.1.2		Technical	This requirement prevents ingress of water.	Add 6.12.2.1.2: The atmospheric tank vent shall terminate in the downward facing direction.	Not accepted, updated standard will now require a breather cap with rain hood rather than gooseneck, to reflect current industry best practice (see 6.12.2.2 g).		Shell
6.12.2.1.3		Technical	An MAWP has to be specified for additional pressure from oil mist formation.	Add 6.12.2.1.3: The allowable working pressure of atmospheric tanks shall be at least 35 kPag (5 psig).	Not accepted, atmospheric lube oil rundown tank does not require a pressure rating since the atmospheric overflow connection prevents pressurization.		Shell
6.12.2.2		Technical	prevents ingress of airborne foreign matter and bugs.	Add 6.12.2.2 g): The atmospheric tank vent shall have a coarse 1 mm (U.S. Mesh 18) mesh screen.	Accepted in principle; will add requirement for a filter-breather cap with the same requirements as for the lube oil reservoir breather cap. Fig. C.15 will be updted accordingly.		Shell

6.12.2.2		Editorial	Consider rephrasing the numbered requirements in 6.12.2.2 as statements of facts and deleting the nested "shall" statements.	Consider rephrasing the numbered requirements in 6.12.2.2 as statements of facts and deleting the nested "shall" statements.	Accepted.	Zack Zalesky	Chevron
6.12.2.2 d)		Technical	adding a clean out to a direct contact accumulator would be consistent with our approach on rundown tanks (atmos & pressurized) and seal head tanks. The figures can be interpreted to show the cleanout, although we didn't specifically label it (see Figs in Eric April 9 e-mail).	6.12.2.2 d) A nozzle with minimum size of ON 150 (NPS 6) shall be provided for accessing and inspecting the interior of the rundown tank. Alternatively, for atmospheric rundown tanks, a bolted cover may be provided in lieu of the nozzle.	Not accepted; this could be too large for many accumulators.		
6.12.2.2 f)		Technical	add new subparagraph f)	Bottom outlet connections on atmospheric emergency lube-oil rundown tanks shall extend 25 mm (1 in) inside the tank to retain foreign matter. In addition, a flush mounted NPS 3/4 flanged and valved drain connection shall be provided.	Accepted in principle, will add bulleted para.		KBR Overlay
6.12.2.2 f)		Technical	New para	The bottom outlet connection of emergency lube oil run-down tanks shall extend at least 25 mm (1 in) inside the vessel to retain foreign matter.	Accepted in principle, will add bulleted para.		Motiva Overlay
6.12.2.4		Technical	Atmospheric rundown tanks shall be provided with low-level alarm and high-level permissive start functions. These functions may be served by a common device.	Does this imply that a Level Gauge need not be mandatory for the Lube oil Run down Tank as per API 614, unless Customer requests for it.	Add NOTE: Because an atmospheric rundown tank is typically mounted in unmanned areas and is already equipped with level instrumentation, a level gauge is not needed.	MATHEW C.T.	ENPRO INDUSTRIES PVT. LTD (INDIA)
6.12.2.4	NOTE	Editorial	To comply with SOME's directive to reduce the number of technical notes, consider deleting the note since it is tutorial in nature.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.12.2.5		Technical	Existing: Pressurized rundown tanks do not require level instrumentation.	Substitute: Level transmitters are required for all rundown tank types. Transmitter type shall be approved by Owner's Engineer.	Not Accepted. Consider adding a note.		Motiva Overlay
6.12.2.6		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified." To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the updated wording shown below. "6.12.2.6 [bullet] For pressurized rundown tanks, a bypass orifice around the ball float check valve shall be provided to help prevent sticking of the ball float due to vacuum in the spillover line. See Figure C.16."	Accepted.	Zack Zalesky	Chevron
6.12.2.7		Technical	new para	[Add] 6.12.2.7 When lube-oil rundown tanks are required for driven equipment, the lube-oil rundown tank connection shall be located in the equipment header piping as close as possible to the driven equipment casings to reduce line pressure drops.	Not Accepted. Suggestion is a good practice, but "as close as possible" is not defined. Content is more appropriate for an overlay.		Chevron overlay
6.12.3.2.1		Technical	additional requirement	Add: This applies where the flow rate used in the sizing is based on the seals operating at twice the maximum allowable design clearance as provided by the seal manufacturer.	Not Accepted. Does not meet the 80/20 rule (would lead to a large sized run down tank and reservoir than some users would prefer). Content is more appropriate for an overlay and the existing wording of "sufficient time as specified by the purchaser" provides the flexibility for leveraging the expected seal oil leakage rate (flow requirement) for seals operating at twice the maximum allowable design clearance if desired.		Chevron overlay
6.12.3.2.4	NOTE	Editorial	To comply with SOME's directive to reduce the number of technical notes, consider deleting the note since it is tutorial in nature.	Delete the note.	Accepted.	Zack Zalesky	Chevron

6.12.3.4		Technical		6.12.3.4 Overhead seal-oil tanks shall be provided with the following items a) to g): a) one bottom outlet nozzle, at least ON 150 (NPS 6) in size, which shall not extend inside the vessel; this nozzle shall be used for internal access and inspection;	Not accepted; bottom outlet would not be practical; see Fig. 3.		
6.12.3.4		Editorial	I believe based on the current style guide requirements that the "shall" statements in each numbered item need to be removed and each item restructured as a statement of fact.	Consider updating 6.12.3.4 a) through 6.12.3.4 g) to statements of fact and removing the nested "shall" statements.	Accepted.	Zack Zalesky	Chevron
6.12.3.4 f)		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.12.3.4 g)		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.12.3.5		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.13.1		Technical	additional requirement	Add: Each drain trap shall be sized to handle the total seal leakage with seals in the deteriorated condition.	Accepted in principle. Seal oil traps shall be sized for all operating conditions including start-up and settle out based on 2x the guaranteed inner-seal oil leakage rate. Requirement created as 6.13.16 based on verbiage provided by Chuck (see below).		Chevron overlay
6.13.1		Editorial	Consider breaking 6.13.1 into multiple requirements or rephrasing into multiple subrequirements (i.e., 6.13.1.1, 6.13.1.2, etc.) to stay consistent with emerging guidance from the SOME about only having one requirement per paragraph.	Update 6.13.1 as follows: 6.13.1 Seal oil drain traps shall be provided with the following: 6.13.1.1 One drain trap shall be provided per seal. 6.13.1.2 Where seals operate at the same oil sealing pressure (see Figure C.14), an emergency line, isolation valves, and valve to cross connect trap inlets to permit trap maintenance with the machine in service shall be provided.	Accepted.	Zack Zalesky	Chevron
6.13.1		Editorial	This paragraph as written has two "shalls" and therefore needs to be broken up to comply with the API style guide. After the paragraph is broken up section 6.13 will need to be renumbered accordingly.	Consider adopting the updated wording shown below for 6.13.1 and the NEW 6.13.2. 6.13.2 through 6.13.16 in the current version of the document will need to be renumbered. "6.13.1 One drain trap per seal shall be provided. 6.13.2 An emergency line, isolation valves, and valve to cross connect trap inlets to permit trap maintenance with the seal oil system in service shall be provided where seals operate at the same oil sealing pressure (see Figure C.14)."	Accepted.	Zack Zalesky	Chevron
6.13.10		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron

6.13.12		Technical	The second sentence of this paragraph is a "should" statement and therefore not enforceable. Consider converting to a "shall" statement and breaking the paragraph into separate paragraphs (to comply with the API style guide). After the paragraph is broken up section 6.13 will need to be renumbered accordingly. To comply with the SOME's directive on the reduction of technical notes, consider integrating the content of the note into the requirement as shown in the suggested wording.	Consider adopting the updated wording shown below for 6.13.12 and the NEW 6.13.13 and 6.13.14. 6.13.13 through 6.13.16 in the current version of the document will need to be renumbered. "6.13.12 The seal oil trap vent piping arrangement shall be jointly developed by the purchaser and the vendor to ensure proper function of the compressor shaft seals (compressor oil seals). 6.13.13 The seal oil trap vent piping shall be arranged to avoid pocketing of liquids. 6.13.14 System backpressure, motive flow available, and other issues shall be accounted for the in the seal oil trap vent piping.	Accepted.	Zack Zalesky	Chevron
6.13.14		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.13.14	NOTE	Editorial	To comply with the SOME's directive on the reduction of technical notes, consider integrating the content of the note into the requirement as shown in the suggested wording.	Consider adopting the updated wording shown below: "6.13.14 Separate drain lines shall be provided for each seal oil trap to allow for the monitoring of seal leakage for each seal."	Accepted.	Zack Zalesky	Chevron
6.13.16		Technical	Create wording to address concern on trap sizing.	Seal oil drain trap systems shall be sized for the 2 times total guaranteed inner-seal-oil leakage rate considering all operating conditions including startup, normal and settle out. Note: Utilization of seal oil drainer valved and orificed bypasses may be necessary for unit startup when insufficient casing gas pressure is present prior to pressurization.	Accepted. Design requirement for seal oil trap sizing incorporated as 6.13.16.	Chuck Parker	
6.13.16	NOTE	Editorial	Wording of the note is a bit awkward. Consider updating the wording of the note for improved readability/clarity. Also, I'm not sure whether this is the best place to address this feature, but I believe the intent of this note is to identify that spill back/bypass valve may be necessary in some designs (sometimes referred to as "B-Valve").	Consider updating wording for improved clarity and whether this note would be more appropriate somewhere else.	Accepted.	Zack Zalesky	Chevron
6.13.2		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.13.6		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.13.8		Technical	Additional requirement	Add: Gauge glass shall be equipped with flushing provisions.	Accepted. TF discussed and sees value in including provisions for flushing. Requirement updated to include "and equipped with provisions for flushing".		Chevron overlay
6.14.1		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

6.14.10		Technical	new para	No valves are permitted between the degassing drum and the oil reservoir.	Not Accepted. Valve is not shown in the representative drawing.		KBR Overlay
6.14.10		Technical	new para	Add: The pressure rating of the degassing tank shall be provided by the vendor as part of the proposal.	Accepted in principle. Change reference to sub para for 6.14.9. Update wording to say that customer shall provide pressure and temperature rating requirement.		Chevron overlay
6.14.11		Technical	new para	Rupture disks shall not be used for overpressure protection of degassing tanks.	Not Accepted. Requirement is more appropriate for an overlay.		Chevron overlay
6.14.3	Figure 4	Technical	The content of footnote d in Figure 4 is not captured in section 6.14. A paragraph with the content of this footnote needs to be created to comply with the API Style Guide.	Create a paragraph with the content of this footnote needs to be created to comply with the API Style Guide.	Accepted.	Zack Zalesky	Chevron
6.14.3 a)	NOTE	Editorial	To comply with the SOME's directive on the reduction of technical notes, consider integrating the content of the note into the requirement as shown in the suggested wording.	Consider adopting the suggested wording shown below: "a) sloped inlet tray, extending below the operating level, which ensures that the oil enters the tank in a thin layer to facilitate degassing;"	Accepted.	Zack Zalesky	Chevron
6.14.3 b)		Editorial	Consider rewording this entry in the list to delete the nested shall. This entry will need to be split into two or three numbered design requirements to comply with the API style guide.	Consider adopting the suggested wording shown below. Update the numbering in the list accordingly. b) oversized gas-vent connection to handle the flow of gas from the seals through the oil drains; c) the size of the connection is at least DN 50 (NPS 2) d) the connection is flanged; e) the vent connection is routed by the purchaser to an appropriate location based on dispersion analysis;"	Accepted.	Zack Zalesky	Chevron
6.14.3 g)		Editorial	Consider updating the wording on this entry in the list to eliminate the "icognito" "if specified".	Consider adopting the wording shown below: "g) level transmitter for high alarm and, when equipped with an electric immersion oil heater, low-level interlocking."	Accepted.	Zack Zalesky	Chevron
6.14.4		Technical	Substitute para	Unless otherwise specified, an electric immersion heater shall be provided to assist in degassing the oil. Heater shall be installed at an elevation lower than the outlet connection to ensure elements are submerged at all times. The heater shall be installed in a non-stagnant flow region of the drum.	Not Accepted. Although electric immersion heaters are the most common form of heater used on degassing tanks, the requirement as written provides users the flexibility to select their preferred methodology. The TF did not feel that it was appropriate to make electric heaters the default and require that an exception be taken to utilize an alternative method. The suggest on locating the heater below the oil outlet connection is valid, however the benefit from this design practice is already covered by the mandate for an interlock to de-energize if the oil level drops below the heater.		KBR Overlay
6.14.4		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

6.14.7		Technical	The interlock for denergizing electric emersion heaters if the oil level drops below the heater is a critical safety feature. The requirement as written is a "should" which does not require compliance. Changing to a "shall" is necessary to ensure compliance.	Change "should" to "shall"	Accepted. Update discussed by TF during 2026-04-23 meeting and recommendation adopted.	Zack Zalesky	Chevron
6.14.8		Technical	Update seal oil leakage rate used in the calculation from the "guaranteed total inner-seal oil leakage" (which implies normal leakage) to the expected seal oil leakage rate for all seals operating at twice the maximum allowable design clearance.	Update 6.14.8 as follows: 6.14.8 The drum shall have a 4-hour minimum retention time, based on the expected total inner-seal-oil leakage rate for all seals operating at twice the maximum allowable design clearance or a minimum liquid volumetric capacity of 60 l (15 gal) per compressor body, whichever is greater.	Accepted.	Zack Zalesky	Chevron
6.14.9		Technical	Substitute para	The degassing drum shall be designed for a minimum pressure of 170 kPa (25 psig) and be in accordance with ASME Section VIII. The degassing drum shall be designed to permit discharge of vent gas to flare, compressor suction or disposal outlet, as indicated on the data sheets.	Not Accepted. The pressure rating requirements for the degassing drum will be covered under the new 6.14.9.1. The requirement for a pressure vessel to be designed to ASME BPVC Section VIII (or other purchaser-specific pressure design code) is covered under 6.3.1. and pressure vessel code requirements are covered elsewhere in the standard (6.1.7). The additional verbiage in the comment is tutorial in nature.		KBR Overlay
6.14.9		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.2.1		General	Recommend new requirement.	The system arrangement and orientation/location of the Purchaser's connections shall be mutually agreed upon prior to system fabrication.	Not Accepted. Drawing submittal prior to fabrication is already covered in the VDDR. If the customer approves the drawing submittal (as already covered) that would meet the requirement of "mutually agreed upon."		KBR
6.2.10	NOTE 1	Editorial	Update the wording in 6.2.10 to integrate some of the relevant text from the notes (and delete the notes).	Suggested wording below: To minimize the potential for the generation of static electricity (or a static charge) that can result when filtered oil bypasses the equipment and is recycled directly to the reservoir, the recirculated bypass oil shall originate upstream of the filters.	Accepted.	Zack Zalesky	Chevron
6.2.10	NOTE 2, NOTE 3	Editorial	While the contents of NOTE 2 and NOTE 3 are good and worth maintaining. To comply with the guidance from the SOME of minimizing the notes in the body of the document, consider moving the content of these notes to Annex K (K.5)	Move the contents of NOTE 2 and NOTE 3 to Annex K (K.5).	Accepted.	Zack Zalesky	Chevron
6.2.13		Technical	Existing para: If specified, the purchaser shall provide minimum requirements for clearance around and access to components (especially clearance around and access to heat exchangers, filters, and hand valves).	Recommended change: The Purchaser shall specify on ES 6-9-1DS any special requirements for clearance around and access to components. The vendor shall show maintenance space needed on the general arrangement drawings. Examples include the space required to remove the reservoir oil heater or remove the tube bundle from a shell and tube heat exchanger.	Comment withdrawn. Comment is a user preference from their overlay.		Motiva Overlay
6.2.13		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

6.2.13.1		Technical	New para	Oil systems shall include the following features: a) All indicating instruments readable from an operator-accessible location not more than 0.6 m (2 ft) away. b) Piping, instrumentation, and other components shall not obstruct either side of the oil pumps and drivers. i. Both sides of the pumps and drivers to be clear for a minimum of 0.75 m (2-1/2 ft). ii. Piping not to be run through the space above the pumps and drivers. c) Valves, control valves, and instrumentation accessible from the skid edge or access gantry for operation and maintenance. d) Junction boxes and Hand/Off/Auto switches located at the skid edge and not obstruct access to equipment. e) When heat tracing and insulation will be site-applied, adequate spacing to be allowed for the heat tracing and insulation.	Not Accepted. Customer requirements for human factors/safety in design (spacing, access restrictions, etc.) is already covered under 6.2.13.		Motiva Overlay
6.2.13.1		Technical	add new para to provide access for operation and maintenance.	Clearance between the outside rim of a valve handwheel or the end of a valve handle and an obstacle located within the field of travel of the handwheel or the handle shall be at least 75 mm (3 in.).	Not Accepted. Generally would be covered by the customer supply of human factors/safety in design. If this specific requirement is unique from that, it should be captured in their overlay.		Shell
6.2.13.10		Technical	add new para, provides safe access without a ladder for operation and maintenance.	Equipment shall be accessible from ground level or from a permanent platform.	Not accepted, these features already covered elsewhere in the standard. Stopped here April 23.		Shell
6.2.13.11		Technical	add new para, provides safe access for operation and maintenance.	Permanent access platforms with guardrails shall be supplied complete with the following: — permanently installed stairs with guardrails; or — permanently installed ladders with guardrails.	Not accepted, these features already covered elsewhere in the standard.		Shell
6.2.13.12		Technical	add new para, A horizontal reach of 510 mm is considered the maximum distance to provide safe access for operation and maintenance as it is less than an average arm length.	The horizontal reach to access components from a platform shall be less than or equal to 510 mm (20 in.).	Accepted.		Shell
6.2.13.13		Technical	add new para, provides easy access for maintenance by allowing for a standard clearance for rodding out devices.	Drain valve connections shall be provided with clearance for rodding out devices.	Not accepted; not generally applicable to oil systems components.		Shell
6.2.13.14		Technical	add new para, A clearance of 75 mm between pipework and adjacent equipment or structural members is considered necessary as this is 25 mm more than is required between adjacent pipework and tubing. Equipment and structural members are bulkier than pipework and tubing.	Clearance between the outside surface of the piping insulation system and adjacent equipment or structural members shall be at least 75 mm (3 in.).	Not accepted, insulation is already addressed in this standard.		Shell
6.2.13.15.1		Technical	new para, facilitates the use of rodding out devices and for connections of hoses for flushing by providing a standard clearance of usually 1 m.	Cleaning and flushing connections of strainers shall be provided with clearance for rodding out devices and for connections of hoses.	Not accepted; not generally applicable to oil systems components.		Shell

6.2.13.15.2		Technical	new para, facilitates the use of rodding out devices and for connections of hoses for flushing by providing a standard clearance of usually 1 m.	Cleaning and flushing connections of filters shall be provided with clearance for rodding out devices and for connections of hoses.	Not accepted; not generally applicable to oil systems components.		Shell
6.2.13.16		Technical	new para, provides sufficient access for maintenance. The reservoir can be raised to meet the low-level requirement of 150 mm (6 in.) for low-point drain valve flanges.	A vertical clearance of at least 150 mm (6 in.) shall be provided between the bottom of the piping flange and the ground level or the top of the floor grating.	Not accepted, already addressed in 6.2.13		Shell
6.2.13.2		Technical	New para	When top-mounted pumps are supplied, piping layout should allow for vertical lifting of the pump/motor assembly with minimal piping disassembly.	Not accepted; "with minimal disassembly" is not enforceable.		Motiva Overlay
6.2.13.2		Technical	add new para for minimum clearance (i.e. the total gap to be equal to insulation thickness plus 50 mm) provides clearance needed in cold weather climates to allow for insulation.	For valves installed in ambient temperature applications below 0 °C (32 °F), clearance between insulated valves and other piping items shall be at least 50 mm (2 in.).	Not accepted, already addressed in 6.2.13		Shell
6.2.13.3		Technical	add new para to provide access for operation and maintenance by ensuring that clearance between the pipe insulation and the valve handle is allowed for.	Clearance between the back of the valve handle and insulation on the line shall be at least 75 mm (3 in.).	Not accepted, already addressed in 6.2.13		Shell
6.2.13.4		Technical	add new para; Heavy vertically oriented blind flanges are easier to handle than horizontally oriented blind flanges.	Blind flanges heavier than 50 kg (100 lbs) shall be oriented vertically.	Not accepted, maximum lifting weight addressed in 6.1.9, vertical orientation can be better addressed in general layout discussion.		Shell
6.2.13.5		Technical	new para provides increased clearance around valve actuators as these items are likely to require more space for maintenance or replacement.	Clearance around automated valve actuators shall be at least 300 mm (12 in.).	Not accepted, see 6.2.13		Shell
6.2.13.6		Technical	add new para, This provides sufficient access for operation. The reservoir can be raised to meet the low-level requirement of 150 mm (6 in.) for the low-point drain valve handles. A portable step ladder can be used to access high-level valve handles.	Valve handles in the open position and in the closed position shall be between 150 mm (6 in.) and 1980 mm (6 ft 6 in.) from ground or platform level.	Not accepted, see 6.2.13		Shell
6.2.13.7		Technical	new para. provides sufficient access for maintenance and cable installation without excessive cable bending.	Junction boxes shall be installed with the horizontal centerline of the box at least 1 m (40 in.) above ground level or above the permanent access platform.	Not accepted, see 6.2.13		Shell
6.2.13.8		Technical	new para, provides the information needed by the plant layout design for safe access for removal of equipment for maintenance.	For equipment that requires removal using mobile hoisting equipment, vertical clearance and access shall be shown on the general arrangement drawing of the lube-oil skid.	Not accepted, already specified elsewhere in this standard.		Shell
6.2.13.9		Technical	add new para, provides an easy path with a clearance of 800 mm which is considered sufficient for access to components requiring maintenance and inspection.	Clearance around components that require access for maintenance and inspection shall be at least 800 mm (30 in.).	Not accepted, see 6.2.13		Shell
6.2.14		Technical	Pumps, filters, strainers, coolers, traps, valves and all other components that retain oil under pressure and are external to the reservoir shall be made of steel.	Pump casing may be made of cast iron. Thermostat-operated temp. control valve body may be made of cast iron.	Not accepted; see 6.2.14		Huali (China)
6.2.14	NOTE	Editorial	Consider adding "and may not be weld repairable" to the end of the existing text in the note to better explain why cast iron is not permitted.	Consider adding "and may not be weld repairable" to the end of the existing text in the note	Accepted.	Zack Zalesky	Chevron

6.2.15		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.2.18 •		Technical	Add new requirement.	Double block and bleed valves shall be provided for vents and drains in hazardous gas (i.e., toxic or flammable) services or when flange ratings are ASME Class 900 and above.	Not accepted. See 6.2.18		KBR
6.2.24		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.2.24		Editorial	This paragraph has two "shall" statements. This statement will need to be broken up per the current API style guide requirements. Consider integrating the contents of the note into a subrequirement to comply with the API SOME directive of reducing notes.	Consider adopting the following verbiage: "6.2.24 [bullet]] A dynamic simulation shall be performed for the oil system. 6.2.24.1 The purchaser shall define the scope of the study. 6.2.24.2 The scope of the simulation shall at a minimum include operating modes and transient conditions, such as pump change over, valve transfer, filter transfer, hydraulic governor transient, start-up, shutdown, and settle out."	Accepted.	Zack Zalesky	Chevron
6.2.24.1		Technical	New para	The dynamic simulation study shall include a detailed model of the piping system including interconnecting pipe. It shall demonstrate the performance of the system for all transient conditions and provide assurance the train will not trip or auto start the spare pump during normal operations of the oil system. The results of this study shall be the basis for the operational testing. Refer to 9.3.3.10 k) for requirements of dynamic simulation verification testing.	Not accepted, dynamic simulation addressed in 6.2.24		Motiva Overlay
6.2.25		Technical	new para, allows for safe ergonomic valve operation and is aligned with API 6D:2021, 5.4.2.1.	The manual force required to operate valve handles at the MAWP shall not exceed 360 N (80 lbf).	Not accepted, too difficult to enforce.		Shell
6.2.3		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron

6.2.5		Editorial	This paragraph has two "shall" statements. This statement will need to be broken up per the current API style guide requirements.	Consider the updated wording to comply with the API style guide: 6.2.5 The oil system supplied shall be capable of supplying specified quantities of clean, filtered oil at the specified temperature and pressure for start-up and all operating conditions of the serviced rotating equipment. 6.2.6 Seal-oil systems shall be designed to serve the full range of equipment operating conditions specified. These conditions may include, but are not limited to, the following: a) settling-out pressures; b) process relief-valve settings; c) shop test and field run-ins; d) process start-up or any other idling condition specified, with the system in total automatic control and with the shaft end seal at atmospheric pressure; e) account for interconnecting piping distances and elevation differences between the location of the oil system and served equipment.	Accepted.	Zack Zalesky	Chevron
6.2.5.1		Technical	New para	The system shall have sufficient turndown capabilities to accommodate the operation of part of the equipment served. The turndown conditions shall be specified on the data sheet by the Purchaser. Note: Turndown conditions are defined as those times that the machinery may be called on to operate with one of the train components out of service. For example - a pump may be driven by both an electric motor and a steam turbine. If the steam turbine is removed for maintenance, and the pump is started again with the electric motor only (with the turbine removed) this system is considered to be operating in turndown condition.	Not accepted, turndown requirements are specified on the data sheet. Refer to 6.7.1.3		Motiva Overlay
6.2.5.2		Technical	New para	Start-up, parallel pump operation, and "off-design" conditions (as indicated in the order) shall be accommodated without affecting the mechanical integrity of the various components in the system or exceeding its cooling capacity. This is particularly important in high pressure systems.	Not accepted, off-design requirements are specified on the data sheet. See 6.2.5		Motiva Overlay
6.2.6 •		Editorial	Change "purchaser" to "Supplier with unit responsibility".	The Supplier with unit responsibility shall specify the equipment's normal operating point and alternate operating points including transients.	Accepted.		KBR
6.2.7		Technical	Add	For compressors having liquid film or sleeve-type seals in services specified to contain hydrogen sulfide or other corrosive or toxic gases, seal-oil and lube-oil systems shall be independent and shall be completely isolated.	Not accepted, see 6.2.7		Chevron overlay

6.2.7	NOTE	Editorial	Delete the note to comply with the current guidance from the SOME. The note does not provide additional clarity on a design requirement of practice nor does it provide further guidance to successfully design the system.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.2.8 •		Editorial	Change "purchaser" to "Supplier with unit responsibility".	If oil is supplied from a common system to two or more machines (such as a compressor, a gear and a motor), the oil's characteristics will be specified by the Supplier with unit responsibility.	Accepted.		KBR
6.3.3		General	Add new requirement.	(Add) Vessels with MAWP ≥ 1 barg (15 psig) and designed per the BPVC which are not code stamped shall have third party Authorized Agency inspection.	Not accepted, additional inspections can be specified elsewhere (overlay, P.O.).		KBR
6.3.3		Technical	new requirement, Pressure and size are factors in determining the requirement for code stamping.	Vessels smaller than the size and pressure required for a code stamp as per ASME BPVC, Section VIII, Division 1 shall be manufactured from piping components.	Not accepted, pipe can be used to avoid code stamp but should not be required.		Shell
6.3.3		Editorial	Since this is already a bulleted paragraph, consider rephrasing the requirement to get rid of the "if specified."	Consider adopting the following wording: "Vessels shall be code stamped as indicated on the data sheet."	Accepted.	Zack Zalesky	Chevron
6.3.3	NOTE 2	Editorial	Because of the potential ramifications associated with any potential to perceive an inferred encouraged use of non-code stamped pressure vessels, I suggest we delete NOTE 2.	Delete NOTE 2.	Accepted.	Zack Zalesky	Chevron
6.3.3	NOTE 4	Editorial	While the reference in NOTE 4 back to "statutory requirements, 5.3 " makes logical sense, looking at the contents of subsection 5.3, I'm not sure the reference has much value. Consider deleting NOTE 4.	Delete NOTE 4.	Accepted.	Zack Zalesky	Chevron
6.3.4		Technical	The piping design shall be in accordance with ASME B31.3 or other purchaser-specified piping design code.	When the equipment is used in China, Chinese standards will be used for piping design.	Not accepted, already covered in 6.3.4		Huali (China)
6.3.4		Technical	Add to end of sentence	. . . with all welds suitable for cyclic service.	Not accepted, 80/20 rule.		Chevron overlay
6.4.1		Technical	Add sentences	Unless otherwise specified, weld acceptance criteria shall be per ASME B31.3 Section 341.3.2 (Examination – Acceptance Criteria) for severe cyclic conditions. All hydrocarbon piping butt welds shall be traceable to the welder that performed the welding.	Not accepted, 80/20 rule.		Chevron overlay
6.4.1.1		Technical	new para, for downstream applications.	Welding of pressure-containing parts for downstream applications shall be in accordance with API 582.	Not accepted, ASME is already specified for pressure containing welds.		Shell
6.4.1.2		Technical	IOGP S-705 is the supplementary specification to API 582 for offshore (upstream) applications.	Welding of pressure-containing parts for offshore applications shall be in accordance with IOGP S-705.	Not accepted, ASME is already specified for pressure containing welds.		Shell
6.4.1.4.2		Technical	additional requirement	Add] 6.4.1.4.2 Rupture disks shall not be used for overpressure protection of seal-oil reservoirs or oil reservoirs in combined lube- and seal-oil systems with or without control-oil.	Accepted in Principle, will prohibit use of rupture disc by adding new text in 6.6.4.9.1		Chevron overlay

6.4.4		Technical	new para	Add] 6.4.4 100% radiographic tests (RT) on all gas piping circumferential butt welds shall be required.	Not accepted, option already provided in 6.4.2		Chevron overlay
6.4.5		Technical	new para	Add 6.4.5 If NACE compliance is required, all welds (butt and branch) and cold-bend pipe sections (where applicable) shall be hardness tested for NACE compliance. If the weld procedure qualification includes satisfactory hardness testing, this requirement may be waived per NACE.	Not accepted, 80/20 rule. See 9.2.3.3		Chevron overlay
6.5.1		Technical	add new requirement.	6.5.1 [Add] A single-unit baseplate shall not exceed 12 m (40 ft) in length and 3.6 m (12 ft) in width. Purchaser shall specify in the project specifications or on the data sheets whether a single or multiple baseplate, separate lube-oil console, or other arrangement shall be required.	Not accepted, this is more appropriately discussed at the project design phase. See 6.5.2		Chevron overlay
6.5.15		Technical	New para	Leveling measurement locations shall be labeled and numbered on the general arrangement drawing to ensure consistency in leveling from the vendor shop during fabrication to setting and leveling in the field. The vendor shall provide a chart or diagram with the location numbers and level measurement readings recorded at each location in the shop during fabrication.	Accepted in principle, remove reference to G.A. Add diamond and bullet.		Motiva Overlay
6.5.2.2		Technical	All joints, including deck plate to structural members, shall be continuously seal-welded on both sides to prevent crevice corrosion. Stitch welding, top or bottom, is unacceptable.	Between the deck plate and the structural member, the welding seam at the bottom of the baseplate will be discontinuous welding. After welding, anti-corrosion treatment will be carried out to prevent corrosion.	Not accepted, does not meet industry generally accepted practice.		Huali (China)
6.5.2.2		Technical	The underside of the deckplate to the beams will be skip/stich-welded.		Not accepted, does not meet industry generally accepted practice.		Lube Power
6.5.3.1 & 2		Technical	Baseplates are constructed as a drip lip style with flat decking and no gutter.		Not accepted, see 6.5.3.2, with 6.5.5 sloped decking option.		Lube Power
6.5.3.2		Technical		kid decking will not be sloped, but just flat (as per para.6.5.5) with a drip rim provision around, and no gutter will be provided on any sides of skid, since 4 drain points (NPT tapped) will be provided at the 4 corners of the skid, thus allowing for complete drainage of any possible leakage. Such a configuration will allow for much a stiffer structure within the same dimensions, especially at the connection of the main transverse beams with external frame of the skid. Drain gutter is not provided.	Not accepted, see 6.5.3.2, with 6.5.5 sloped decking option.		COES (Italy)
6.5.3.2		Technical		Provide flat decking & flat gutters as API 614-4th (No Slope).	Not accepted, see 6.5.3.2, with 6.5.5 sloped decking option.		Misuzu Industrial Corp (Kobe)
6.5.3.3		Technical	One or more tapped drain connections at least DN 50 (NPS 2) shall be located to affect complete drainage.	Baseplate drain may be NPT-F(3/4" or 1"). NPS 2 drain connections are sometimes impractical for smaller system baseplates.	Not accepted, existing text is industry generally accepted best practice.		Huali (China)

6.5.4		Technical	Add new requirement.	6.5.4.1 Unless otherwise specified, the baseplate for onshore applications shall be of open construction, without decking, suitable for filling with grout or concrete. No piping or components shall be located below the grout surface (top of baseplate).	Not accepted, 80/20 rule.		KBR
6.5.4		Technical	Add new requirement.	6.5.4.2 If specified, nonskid metal decking covering all walk and work areas shall be provided on the top of the baseplate for onshore applications	Not accepted; Already covered in 6.5.4		KBR
6.5.4		Technical	Add new requirement.	6.5.4.3 If decking is specified, grout holes shall be provided in accordance with the requirements of 6.5.7 through 6.5.7.6	Not accepted; Already covered in 6.5.7		KBR
6.5.4		Technical	Add new requirement.	6.5.4.4 For offshore applications, the baseplate shall be constructed as specified on the data sheets	Not accepted, does not provide useful direction, since data sheets will already govern.		KBR
6.5.4		Technical	additional requirement	Baseplates shall be furnished with serrated grating mounted above the deck plating and at all walking and working surfaces. To the extent possible, cable trays and small-bore piping shall be routed under the serrated grating to improve equipment accessibility. Grating sections shall be removable to facilitate access to piping and cabling.	Not accepted, 80/20 rule.		Chevron overlay
6.5.6.2	NOTE 2	Editorial	The wording in NOTE 2 as written reads a little awkward. Consider updating the verbiage for improved readability.	Equipment with integrated reservoirs can be designed for shipment with oil in the reservoir.	Accepted.	Zack Zalesky	Chevron
6.5.6.3		Technical	revise since Additional inspection is considered necessary for these components for safety assurance and compliance.	Permanently attached lifting lugs, pad eyes and trunnions shall pass 100 % radiographic or ultrasonic inspection in accordance with AWS D1.1/D1.1M or an alternative applicable code. Materials in the heat-affected zone that directly attach to lifting lugs, pad eyes and trunnions shall pass 100 % radiographic or ultrasonic inspection in accordance with AWS D1.1/D1.1M or an alternative applicable code.	Accepted in principle, will add "according to 9.2.1.5"		Shell
6.5.6.3.1		Technical	New para	Lifting lugs shall be designed with minimum SF5 inclusive of shock loads. Calculations shall be provided for Owner's Engineer review.	Accepted in Principle; will reword and add new para, also adopt NOTE 2 from 6.5.6.2 KK note: recommend to SPs TF.		Motiva Overlay
6.5.6.4		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
6.5.6.6		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.5.7		Technical	If specified, all baseplates shall be provided with at least one opening or hole in each bulkhead section through which grout can be poured and vented, per requirements of 6.5.7.1 through 6.5.7.6.	Due to the stiff design of the baseplate, no grouting is necessary. Grout openings or holes around lube oil pumps are provided.	Not accepted, this requirement is an option when specified by the purchaser.		Everlence
6.5.7		Technical	Since 6.5.7 (and its subparagraphs) align with API 686, rather than repeating those requirements here would it be more prudent to have a bulleted requirement for designing grout filled baseplates in compliance with API 686?	Consider replacing 6.5.7 (and its subparagraphs) with "[bullet] Grout filled baseplates shall be designed and installed in accordance with API 686."	Not Accepted; adding a 686 baseplate requirement is appropriate for an overlay.	Zack Zalesky	Chevron

6.6.1		Technical	Additional requirement	A lube-oil reservoir, series 304 or 316 stainless steel, vent flame arrestor shall be supplied.	Not accepted, addresses in 6.6.6.3		Chevron overlay
6.6.1.1		Technical	Additional requirement	6.6.1.1 [Add] Reservoirs, to the extent practical, shall be integral with the equipment baseplate and shall be totally enclosed within the skid enclosure.	Not accepted, 80/20 rule.		Chevron overlay
6.6.1.11		Technical		Top of reservoir will not be sloped for integrated reservoir with baseplate.	Not accepted; see above.		Misuzu Industrial Corp (Kobe)
6.6.1.2		Technical	additional requirement	6.6.1.2 [Add] Systems with separate external reservoirs shall be furnished in series 304L or 316L stainless steel.	Not accepted; better addressed by overlay.		Chevron overlay
6.6.10.1		Technical	Replace with	Each reservoir shall be provided with two flanged and blinded connections above the rundown oil level that are at least 25 mm (1 in.) in diameter. These two connections may be used for such services as purge gas, makeup oil supply, and oil conditioner return. One connection shall be located to ensure an effective sweep of purge gas toward the vents.	Accepted in principle; will change bulleted para from one threaded to two flanged and blinded connections. Also in 6.6.2.10 delete reference to "8.3.5 and change 6.6.10 to provisions for Purge Gas or Makeup Oil Supply."		Chevron overlay
6.6.10.1		Technical	add new requirement to end of para, prevents the corrosion of plugs.	Plugs in reservoir connections shall be made from stainless steel.	No accepted; plugs should be same material as connection.		Shell
6.6.11.1		Technical	Additional requirement	For non-critical applications, the Supplier shall provide an additional valved connection below the minimum oil level of at least DN 25 (NPS 1) for oil treating as specified on the data sheet.	Not accepted, already addressed in 6.6.11		Chevron overlay
6.6.11.1		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.6.11.4.1		Technical	new para, for proven methods for removal of water in oil.	If a oil conditioner is specified, it shall be of filter coalescer or vacuum dehydrator type.	Not accepted, better addressed by overlay.		Shell
6.6.11.4.2		Technical	new para, prevents loss of lube oil via the oil conditioner system.	If a permanent or mobile oil conditioner is specified, it shall have a protective device that prevents loss of lube oil via the oil conditioner system.	Not accepted, better addressed by overlay.		Shell
6.6.11.4.3		Technical	new para, This is standard industry practice for sizing the oil conditioner.	If a oil conditioner is specified, its capacity shall be at least 1 % of the normal flow rate through the oil reservoir.	Not accepted, better addressed by overlay.		Shell
6.6.11.4.4		Technical	new para, ensures no loss of oil from the reservoir.	If a oil conditioner is specified, it shall have connections and accessory equipment to take oil from and return oil to the reservoir at equal flow rates in accordance with 6.6.11.1, 6.6.11.2 and 6.6.11.3.	Not accepted, better addressed by overlay.		Shell

6.6.12.2		Technical	The inside of our reservoirs is a very non-corrosive environment, filled with lubrication oil in a nitrogen atmosphere. Fully seal-welding internal baffle walls on both sides creates a lot of heat distortion to the reservoir which can cause installation problems. Fully seal-welding small internal portions such as baffle plates on the bottom of the pipes is also unnecessary.	Recommendation is to add a clause for reservoirs containing lubrication oil in a non-corrosive nitrogen rich atmosphere. The exception will allow for certain welds to be stitch-welds on these reservoirs. Recommendation is to add the following clause, "6.6.12.4 Exception: For reservoirs containing lubrication oil in a non-corrosive nitrogen rich atmosphere: Continuous seal welding on both sides or continuous full pen seal welding shall be done for all pressure / fluid retaining edges. Stich-welds are acceptable for all internal non-pressure / non-fluid containing welds to limit heat distortion. Continuous seal welding shall be done for all welds exposed to weather and atmospheric conditions."	Not accepted; not current industry generally accepted best practice.		Sundyne
6.6.13.1		Technical	Replace text for safe access for maintenance and operation.	If the top of the oil reservoir contains equipment that requires routine operations or maintenance access and is higher than 2 m (6 ft), an accessible ladder with extended handrails shall be provided.	Not accepted; bulleted para gives purchasers that option.		Shell
6.6.13.1		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.6.13.2		Technical	Replace text for safe access for maintenance and operation.	If the top of the oil reservoir contains equipment that requires routine operations or maintenance access and is higher than 2 m (6 ft), handrails shall be provided around the perimeter of the reservoir top.	Accepted, will add new para.		Shell
6.6.13.2		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.6.13.3		Technical	Replace text for safe access for maintenance and operation, and add NOTE.	If the top of the oil reservoir contains equipment that requires operations or maintenance access, a nonskid surface shall be provided on top of the reservoir. NOTE: The nonskid surface is typically checker or diamond plate, or hot-dipped galvanized steel grating.	Accepted in principle, will change to non-skid surface, using wording for non-skid from 6.5.4 Add NOTE: manway access is not considered routine maintenance.		Shell
6.6.13.3		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.6.13.3	NOTE 1, NOTE 2	Editorial	To reduce the number of technical notes, consider combining NOTE 1 and NOTE 2.	Consider adopting the suggested wording below that combines the content of NOTE 1 and NOTE 2 into a single note. "Local safety regulations or purchaser's risk assessment often determine the necessity of features, such as ladders and handrails are needed if personnel will be on top of the reservoir for any reason, such as maintenance, servicing, access to other equipment, etc. (refer to 5.3)."	Accepted.	Zack Zalesky	Chevron
6.6.13.4		Technical	Additional requirement	, and to avoid the potential for such equipment to excite a fundamental natural frequency during operation.	Not accepted. 80/20 rule.		Chevron overlay
6.6.13.6		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.6.14.1		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete "unless otherwise specified."	Accepted.	Zack Zalesky	Chevron

6.6.14.3		Technical	Where reservoirs are integral to the equipment case, and where a stainless steel insert or cladding is not practical, other materials or internal coatings are acceptable with Owner's Engineer approval.	Add: Reservoirs integral with the equipment baseplates shall be fabricated from stainless steel.	Not accepted, integral reservoirs not accepted.		Motiva Overlay
6.6.14.3	NOTE	Editorial	Should "is" be changed to "are" in the note?	Updated wording the note below: "NOTE Certain equipment, such as reciprocating compressors or gearboxes, which use crankcases or casings as reservoirs, are sometimes available only in alternate materials, such as cast iron."	Accepted.	Zack Zalesky	Chevron
6.6.14.4		Technical	New para	Material thickness to be 6 mm (1/4 in) minimum.	Accepted, will add new para.		Motiva Overlay
6.6.15.4		Technical	New para	The grounding clips shall be welded to the reservoir prior to final cleaning of the reservoir interior.	Not accepted; 80/20 rule.		Chevron overlay
6.6.2.2		Technical	Section 6.6.5.9.3 makes an essential exception to this section. However, it can be easy for a designer / engineer to miss this section and end up putting a vent on the demister drain stilling tube.	Add reference to 6.6.5.9.3 in 6.6.2.2 to ensure that is not missed. Recommendation is to add the following statement to the clause "Do not vent the stilling tubes of demister returns per 6.6.5.9.3."	Not accepted; 80/20 rule.		Sundyne
6.6.2.4	Fig. C.23	Technical	Control back-pressure valve, PLV/PSV, relief valve, and return stream control valve connections shall be separate and shall discharge oil via internal piping below the pump suction-loss level as shown in Figure C.23.	Stilling tubes with equalizing vent holes are provided for pressure safety valves returns. This is to guarantee that flow glasses on PSV's discharge lines are normally empty, for easy check of correct valve closure. A closed stilling tube may cause the flow glass to be full of oil. The presence of one small (3 mm dia.) hole in the level range A-B achieve the upper portion of tube to drain, maintaining the flow glass empty and achieving the operator to detect any abnormal oil leaks through the PSV	Not accepted; not all PLVs are tight shutoff. Not all systems have sight glasses in return lines.		Huali (China)
6.6.2.7		Technical	For small suction lines (such as NPS 1" to 2") and low flow applications (40 gpm or less), 2" clearance to the bottom drives reservoirs to be over-sized by pushing the levels up. Re-write wordage to allow for an alternative definition based on the cross-sectional area of the inlet.	Recommendation is to add the following statement to the clause "Pump suction connections shall be located with either a vertical clearance of at least 50 mm (2 in.) from the reservoir bottom or an area clearance of at least 2x the cross-sectional area of the inlet opening from the reservoir bottom."	Not accepted; 80/20 rule.		Sundyne
6.6.3.2		Technical	A clarification is needed if a low point gravity drain or any drain that can drain the oil is acceptable, for example a siphon drain. Want a caveat to allow siphon drains. A true low point gravity drain raises overall reservoir height to fit the flanged valve above the top of the skid. This is a significant height increase for small (200 to 300 gallon) reservoirs. A siphon drain can solve this problem and still meet the intent.	Recommendation is to clarify that any configuration that drains the reservoir is acceptable. Recommendation is to add the following statement to the clause "Connection shall allow the draining of the oil to the level of the bottom of the reservoir, any configuration that can achieve this shall be allowed."	Not accepted; 80/20 rule.		Sundyne

6.6.4.1		Technical	When a production crew depends on routine draining water from the bottom of the reservoir it's often a question of time before the water level reaches the pump suction and feeds a slug of water to bearings. But moisture probes can immediately catch and alarm rapid accumulations to things like a leaking oil cooler, rain water, washdowns. I've also seen intercooler water carryover cram water through bearing labys into the oil system.	Include online measurement of oil moisture. This might be included in Annex K, Table K.1. NOTE: little gizmos (described on page 18 of TPS 2016 Stevbe Locke Case Study) by Kittiwake & others are cheap but provide continuous readout of percent water saturation via 4-20 mA. That allows DCS alarming even before water exceeds saturation level providing time for plant crews to investigate and act.	Not accepted; outside the scope of 614.	Steve Locke	
6.6.4.1		Technical	The reservoir rundown volume is sized for 3 minutes of normal flow.		Not accepted, rundown time volume is specified in 6.12.2.2		Lube Power
6.6.4.10		Technical	The vendor shall provide the purchaser with the vent size and the sizing criteria.	Add additional requirement: For systems with oil seals, the minimum vent size, for atmospheric vents, shall be one nominal size larger than the largest return line. An overpressure device is not required.	Accepted in principle; will change to supplier having unit responsibility.		KBR Overlay
6.6.4.3.1.3		Technical	Substitute para for improved clarity	If more than one level glass is needed to cover the required range, they shall overlap and be mounted in such a way as to not lose sight of the level at a gap.	Accepted in principle, re-worded accordingly.		Motiva Overlay
6.6.4.3.2 •		Technical	Add requirement for reservoir oil level transmitter.	In addition to the level glass, one (1) level transmitter indicating the oil level over the entire reservoir depth shall be provided.	Accepted in principle. Updated wording to: "[bullet] If specified, additional means of level indication shall be supplied, such as magnetic type level indicator with stainless steel float chamber."		KBR Overlay
6.6.4.3.2.3	NOTE	Editorial	To comply with guidance from the API SOME on reduction of technical notes, consider deleting this note, since it is tutorial in nature.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.6.4.4		Technical	For atmospheric lube-oil reservoirs, a weatherproof, corrosion-resistant filter-breather cap, sized to take account of the flow rate of entrained air, separation gas, coupling windage, and/or purge gas, shall be provided.	For lube oil reservoir a filter-breather may not be applied, because pressure equilibration may take place via the oil mist separator or a flanged vent connection. For example, an oil mist separation system is provided as per 6.6.5.1	Not accepted, option already given in 6.6.5.1		Huali (China)
6.6.4.4.3		Technical	New para	The vendor with unit responsibility for the oil system shall size the atmospheric vent.	Not Accepted; Already addressed by the vent study.		Motiva Overlay
6.6.4.4.4		Technical	New para	Vent shall be sized to prevent overpressure of the reservoir and shall be the larger of the following: a) To handle the calculated gas flow from gross leakage of the compressor seals plus nitrogen purge flow (if applicable). b) One standard pipe size larger than the respective main oil return line.	Not Accepted; Already addressed by the vent study.		Motiva Overlay
6.6.4.4.5		Technical	New para	Reservoir vents shall be directed outside the immediate area of the oil systems.	Not accepted, "outside the immediate area" is outside the scope 614.		Motiva Overlay
6.6.4.5		Technical		Flanged opening will be provided instead of automatically closing fill opening.	Not accepted; better addressed by an overlay. However, will modify text to be more specific.		Misuzu Industrial Corp (Kobe)
6.6.4.9		Technical	additional requirement	Add: Rupture disks shall not be used in lieu of a properly sized vent and vent piping system.	Not Accepted; Previously addressed		Chevron overlay
6.6.5.1		Editorial	Since this is already a bulleted subparagraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

6.6.5.1	NOTE 1	Editorial	NOTE 1 reads a lot like a definition. Would it be appropriate to convert NOTE 1 to a definition and move it to section 3?	Consider converting NOTE 1 to a definition.	Accepted.	Zack Zalesky	Chevron
6.6.5.12	NOTE	Editorial	To reduce the number of technical notes. Consider integrating the content of this note into the associated requirement.	Consider adopting the updating wording below: "To avoid oil being drawn into the mist eliminator through the oil drain return line, oil mist eliminators shall be arranged at a minimum elevation above reservoir rundown oil level that ensures drainage of oil via return line from the mist eliminator casing at maximum element differential pressure."	Accepted.	Zack Zalesky	Chevron
6.6.5.13		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.6.5.14		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.6.5.15		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.6.5.8		Editorial	Since this is already a bulleted subparagraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.6.6.1		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.6.6.2	NOTE	Editorial	To reduce the number of technical notes. Consider integrating the content of this note into the associated requirement.	Consider adopting the updated wording below: If flame arrestor(s) are specified, the purchaser shall identify specific points requiring vent flame arrestors, which may include locations such as vents on oil reservoirs, lube-oil rundown tanks, bearing housings, gear box housings, coupling guards, oil drain lines, or common vents from a manifolded vent system.	Accepted.	Zack Zalesky	Chevron
6.6.7.10	NOTE	Technical	Delete this note. Knowing the seal oil consumption rate is valuable regardless of whether sour seal oil is routed through the traps back to the reservoir or not.	Delete the note.	Accepted in Principle; kept Note but changed usage to consumption for clarity.	Zack Zalesky	Chevron
6.6.7.13		Technical	New para	[Add] 6.6.7.13 The reservoir suction nozzle shall be straight-through design (self-venting) to eliminate air entrainment.	Not accepted, already addressed by para 6.7.26.2		Chevron overlay
6.6.7.4	6.6.7.4	Technical	The previous editions of API-614 required minimum 5 minutes of working capacity.	The 6th edition has this option as a bullet, but we think it should also have a diamond.	Accepted. Bullet added	Eric McKendry	Cobey
6.6.7.4		Editorial	Para Currently has a bullet, should also have a diamond.	Add diamond.	Accepted.		Cobey
6.6.7.4		Technical	The previous editions of API-614 required minimum 5 minutes of working capacity.	The 6th edition has this option as a bullet, but we think it should also have a diamond.	Accepted. Diamond added.		Cobey
6.6.7.4		Editorial	If specified, the working capacity between G.3 and G.4 in Figure G.1 shall be sufficient for at least 5 minutes of normal flow. Should have a Bullet and Diamond Symbol	Add Diamond Symbol in addition to Bullet	Accepted.	Chuck Parker	
6.6.7.5		Technical	additional requirement	The retention capacity shall not include the volume below the suction-loss level shown in Figure G.1, in Annex G of API 614.	Not Accepted; already defined in Annex G.		Chevron overlay
6.6.7.6		Technical	All heat exchangers have a volume, calling out air-cooled is confusing and un-necessary.	Recommendation is to remove the phrase "air-cooled".	Accepted.		Sundyne

6.6.7.6		Editorial	To reduce the number of technical notes. Consider integrating the content of the note on 6.6.7.7 into this requirement	Consider adopting the updating wording below: "To prevent backup of oil in the drain lines entering the reservoir, the rundown capacity shall allow for all of the oil contained in all of the components that drain back to the reservoir. This can include components such as bearings and seal housings, overhead seal tanks, rundown tanks, accumulators, heat exchangers, control elements, and vendor-furnished piping."	Accepted.	Zack Zalesky	Chevron
6.6.7.7		Technical	Add new text	The Purchaser shall confirm the volume of interconnecting piping does not exceed the additional 10% rundown capacity. The Purchaser shall include the actual volume of the interconnecting pipe on the final as-built data sheet.	Accepted in principle; the designer of the interconnecting piping shall verify . . . to the supplier having unit responsibility. Added as a new paragraph.		Motiva Overlay
6.6.7.7		Technical	The reservoir rundown volume is sized for 3 minutes of normal flow.		Not accepted, rundown time volume is specified in 6.12.2.2		Lube Power
6.6.7.7		Technical	Wordage is confusing. Does not consider the case where there is no purchaser piping. How can the clause determine the volume of something that is best defined by the purchaser? Recommendation is to re-word the section to prioritize accounting for the real-world scenario whenever possible. Clarify that the 10% margin is to account for the purchaser's interconnected piping when it is present but unknown.	The proposed wordage is as follows "Rundown capacity should also account for the purchaser's interconnecting piping. Account for the actual volume of the piping whenever possible. In lieu of purchaser's input, overestimate the 6.6.7.6 volume by at least 10% to account for the unknown piping volume."	Accepted. In incorporated into the new 6.6.7.8.		Sundyne
6.6.7.7		Editorial	Consider converting 6.6.7.7 into "6.6.7.6.1", which will allow the new subparagraph added during the TF working session on May 3rd to meet the API style guide (i.e., 6.6.7.X.1 must be following by a 6.6.7.X.2).	Renumber 6.6.7.7 as 6.6.7.6.1 and finish renumbering the remainder of the section accordingly.	Accepted.	Zack Zalesky	Chevron
6.6.7.7	New Sub Para	Editorial	Consider integrating the content of the note on the new sub paragraph to 6.6.7.7 that was written on the May 3 TF meeting into the requirement.	Consider adopting the updated wording below: The designer of the interconnecting piping shall confirm with the supplier having unit responsibility that the capacity of all piping that drains down into the reservoir upon shutdown does not exceed additional 10% allowance for rundown capacity.	Accepted.	Zack Zalesky	Chevron
6.6.7.9		Technical	additional requirement	[Add] The capacity between the maximum and minimum operating levels in a seal-oil reservoir (in a system that discharges sour seal oil from the unit) shall be sufficient for a minimum of 14 days of operation without adding any oil to the reservoir (for systems without oil automatic makeup) or a minimum of 3 days of operation (when automatic makeup is available). Purchaser shall specify in the data sheets or in the technical requirements if automatic makeup facilities are available. Oil usage shall be based on twice the quoted total inner seal-oil leakage rate at seals worn to twice their maximum design clearance.	Not accepted; 80/20 rule.		Chevron overlay

6.6.8.11.2 e)	NOTE	Editorial	While the content of this note provides good tutorial information. It is available in other published resources. Based on the guidance from the SOME on the mandate for reducing tutorial notes, consider deleting this note.	Delete the note since it is tutorial in nature.	Accepted.	Zack Zalesky	Chevron
6.6.8.12		Technical	Similar to the change that was adopted in 6.6.8.3 for the oil in the reservoir, should the time frame for heating up the oil in the entire system be reduced from 12 hours to 10 hours (that way the requirement is that the entire system is brought to temperature within one shift which is either 10 or 12 hours depending on the facility and maintenance activity)?	Consider whether reducing the heat up time for the entire system is appropriate to achieve the intent of the change addressed in 6.6.8.3.	Accepted.	Zack Zalesky	Chevron
6.6.8.12.2	NOTE	Editorial	Would this note be better suited under 6.6.8.12 rather than the subparagraphs.	Consider moving this note to 6.6.8.12.	Accepted.	Zack Zalesky	Chevron
6.6.8.2		Technical	Make electric heaters default.	Change to: Unless otherwise specified, heaters shall be electric.	Accepted in principle. 6.6.8.1 was updated to make electric heaters the default, while 6.6.8.2 stayed a bulleted requirement allowing users to specify steam heaters if desired.		KBR Overlay
6.6.8.2		Technical	Reservoir heater is sized to bring the charge capacity of oil to the minimum required temperature within 12 hours without the system running.	Interconnecting piping and process equipment are not considered in the heater sizing.	Not accepted, use 8 hours		Lube Power
6.6.8.2.2		Technical	Elliott takes exception to quoting reservoir heaters sized for oil circulating through the system unless detailed information on the interconnecting piping is available.	include reservoir heaters sized to heat the charge capacity of oil in a static reservoir from site minimum ambient temperature to the minimum equipment startup temperature within 12 hours.	Accepted. TF to discuss with SOME.		Elliott
6.6.8.7		Technical	If dry pipe well (tube) heating elements are used, the cold section of the element shall extend at least 30 cm (12 in.) beyond the reservoir wall, and the thermostat shall be located external to the dry well	Is this clause of the Immersion Heater applicable for Vertical Heaters only, or is it applicable for Horizontal Heaters as well ?	Not accepted; unusual heater configurations are better addressed by to overlay.	MATHEW C.T.	ENPRO INDUSTRIES PVT. LTD (INDIA)
6.6.9.1		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.7.1.1		Technical	Add clarification	Rotary pumps shall be screw-type positive displacement.	Not accepted; screw pumps are not available for all capacities, especially for very small flow rates.		Chevron overlay
6.7.1.2		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.7.1.2	NOTE	Technical	Delete this note. The content of this note is an opinion and is not appropriate for inclusion in the standard.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.7.1.3.1		Technical	new para	Oil pumps shall be equipped with automatic pump start (APS) capabilities.	Not accepted; already covered by 6.7.32		Chevron overlay
6.7.1.3.2		Technical	new para	Oil pumps shall be capable of automatically starting via the APS from either the primary to the spare or the spare to the primary.	Not accepted; plant controls not in 614 scope.		Chevron overlay
6.7.1.6		Editorial	The equivalent SI units should be entered into the note portion.	>70 Bar (>1,000 psig)	Accepted.		
6.7.11 a)	NOTE	Editorial	Delete this note. This is tutorial and there are plenty of resources available for users to understand how to calculate NPSHa.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.7.13 d)		Technical	Add	The use of booster pumps requires Owner's Engineer approval.	Accepted, will add new para for purchaser prior approval (added as 6.7.16).		Motiva Overlay

6.7.13.b.2		Technical		The pumps are sized in accordance with 6.7.13.b.1 only and accumulators are proposed for control oil and / or pump switch-over transient flows per Paragraph 6.11.1	Clarification only, no action needed.		Elliott
6.7.14		Technical	additional requirement	The pump head versus flow characteristic shall be such that sufficient oil flow is provided to the equipment when filter pressure drop is equal to the maximum allowable for dirty filters.	Accepted. Added as 6.7.13.b.4.		Chevron overlay
6.7.16		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.7.17.1		Technical	new para	To reduce the required seal-oil reservoir vent size, dual check valves shall be provided on the seal-oil supply line (seal oil pump discharge) to reduce the potential backflow leakage.	Accepted. Added as a new bulleted subparagraph (6.7.17.1).		Chevron overlay
6.7.17.1		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.7.18		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.7.18 6.7.19		Technical	If specified, shaft-driven pumps shall have check valves and bypasses arranged such that the shaftdriven pump continues to supply pressurized oil during periods of reverse rotation. When 6.7.18 is specified, the supplied pump shall be capable of supplying pressure while running backwards.	Will this clause be applicable for a 3-Screw pump or a Gear Pump, since 3-Screw Pumps have a tendency to seize if rotated in reverse direction.	Not accepted; non-typical pump types are better addressed by an overlay. Will consider improved text to be more specific.	MATHEW C.T.	ENPRO INDUSTRIE S PVT. LTD (INDIA)
6.7.19	NOTE 1	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider deleting NOTE 1. The potential risks associated with equipment damage from reverse rotation are well known.	Delete NOTE 1 as it is tutorial in nature.	Accepted.	Zack Zalesky	Chevron
6.7.2	NOTE	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the updated wording below that integrates the content of the note into the requirement. "[bullet] [diamond] If specified, pumps shall be external to the reservoir since pumps mounted inside the reservoir can be difficult to remove for maintenance when the oil system is in service."	Accepted.	Zack Zalesky	Chevron
6.7.20.1		Technical	To prohibit PLVs mounted directly on the pump casing, which complicates maintenance and could lead to hidden failures of the PLV.	Oil pump discharge PLVs shall be installed on vendor-supplied piping.	Accepted.		Shell
6.7.21 (a)		Technical	Oil PLV's shall be pressure-modulating devices (as opposed to snap-acting or pop-type safety relief valves) with a pressure increase proportional to flow above the valve cracking pressure (i.e. the pressure at which the valve begins to open);	Incase of a Lube oil system with Back Spill Valve, will there still be a requirement of Modulating action PLV or can we use API 526 - snap acting Pressure Relief valves at PD Pump discharge. Since the Back spill valve regulates the required flow, the Snap acting relief valve can pop up incase of a pressure rise. Also, if End user Specs accept API 526- Snap acting releif valves, can it be acceptable to use the same for API 614 system	Not Accepted. API 520 and API 526 compliant pressure safety valves are only required for gas, steam, or thermal relief per 8.3.11.3.	MATHEW C.T.	ENPRO INDUSTRIE S PVT. LTD (INDIA)

6.7.21 c)		Technical	To provide monitoring of valve leakage.	Oil pump discharge PLVs shall be routed back to the oil reservoir through sight flow indicators.	Accepted in principle. Will add this as a bulleted requirement in 6.7.22.8 (additional request from same commenter seen below).		Shell
6.7.22.2	6.7.22.2	Editorial	Mis-numbering error between 6.7.21.1 & 6.7.22.2	Renumber beginning at 6.7.22	Accepted.	Bill Foiles	BP
6.7.22.2		Technical	The minimum PLV cracking pressure shall be 10 % or 170 kPa (1.7 bar; 25 psi) higher than the highest required operating pressure, including operation at 10 °C (50 °F), whichever is greater.	Does this imply that all the components within the Lube oil system like the Coolers, Filters, TCV etc shall be checked for the dP values at 10 Deg C oil viscosity, and accordingly select the PLV cracking pressure, either 10% or 1.7 bar, whichever is greater.	Accepted.	MATHEW C.T.	ENPRO INDUSTRIES PVT. LTD (INDIA)
6.7.22.2		Editorial	There is an error in the numbering (from the 6th edition). The document numbering goes from "6.7.21.1" to "6.7.22.2". Fix the numbering.	Fix the numbering to address error from the 6th edition.	Accepted.	Zack Zalesky	Chevron
6.7.22.6		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.7.22.7		Technical	6.7.22.7 that allows us to specify a bypass around a PLV. Diagram C.21 and C.22 show these bypasses for circulation and pump start (C.21 (b) valve below). We do not understand why or when this would ever be applied.	The systems should be designed for pump starting and system warmup without this.	Accepted.	Bob Eisenmann	BP
6.7.22.7		Technical	Globe valves provide tight shutoff and are better suited for throttling service compared to gate valves.	Add: Manual bypass valves shall be of globe type in accordance with Annex C figures.	Accepted. Incorporated as a bulleted requirement.		Shell
6.7.22.7		Technical	Globe valves provide tight shutoff and are better suited for throttling service compared to gate valves.	Add: Manual bypass valves shall be of globe type in accordance with Annex C figures.	N/A. This is duplicate comment.		
6.7.22.7		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.7.22.8		Technical	This requirement provides monitoring of valve leakage.	Oil pump discharge PLVs shall be routed back to the oil reservoir through sight flow indicators.	Accepted.		Shell
6.7.23.1		Editorial	The subparagraph as written has two "shall" statements. The subparagraph needs to be broken into two subparagraphs to comply with the API style guide.	Consider adopting the updated sub paragraph structure (replacing current 6.7.23.1 and 6.7.23.2) shown below: "6.7.23.1 Each device shall have an adequate response time. 6.7.23.2 Each device shall operate smoothly without hunting, chattering, or producing pressure or flow transients that can cause a mechanical problem or shutdown of the equipment [see 9.3.3.10 d)]. 6.7.23.3 These pressure-regulating devices shall be located so that an excessive rise in oil temperature resulting from a recirculation of uncooled oil is avoided. "	Accepted.	Zack Zalesky	Chevron

6.7.23.2		Technical	IOGP S-744 was issued earlier this year. Regarding special purpose lube oil systems, it serves as an overlay to API 614. Sixth Edition. There is a clause within the IOGP S-744 document that has generated some discussion on our side. The IOGP S-744 clause is as follows: 6.7.23.2 Replace section with "Bypass pressure regulating valves shall be located downstream of the oil coolers and upstream of the oil filters." Justification: This requirement prevents bypassing of cooler in case of leaking bypass valves.	Initially, our thoughts are that IOGP should have never made a change to API 614 clause 6.7.23.2	Accepted. Will not adopt change from IOGP.	Mitchell Lowe	Shell
6.7.23.2		Technical	Backpressure regulation valves may return oil upstream of the heat exchanger.		Not Accepted; due to possible overheating of reservoir.		Lube Power
6.7.23.2		Technical	To prevent bypassing of coolers in case of leaking bypass valves.	Replace with: Bypass pressure-regulating valves shall be located downstream of oil coolers and upstream of oil filters.	Not accepted; text already specifies bypass location that avoids excessive heating of reservoir.		Shell
6.7.23.2		Technical	This prevents bypassing of coolers in case of leaking bypass valves.	Bypass pressure-regulating valves shall be located downstream of oil coolers and upstream of oil filters.	Not accepted; text already specifies bypass location that avoids excessive heating of reservoir.		
6.7.25		Technical	Where non-pressure-regulating PLVs are used, the pressure-regulating valve shall be selected such that the PLVs do not lift during two-pump operation	Incase of Air Cooled systems, where there is no specific requirement for a Pressure Reduction / Downstream Control Valve, and the sensing/impulse line for the Back spill Valve is taken from the Downstream of the Filters, in that case, during the 2xPump run test, there are higher chances of pressure rise and the PLV can lift. So the question here is, during the 2xpump run test, incase there is no Pressure fluctuation at the Lube oil Header (which is complying to clause 6.7.23), even if any one of the PLV lifts for some time and reseats back to its position, will it be acceptable	Not Accepted; PLV must be sized to avoid lift-off.	MATHEW C.T.	ENPRO INDUSTRIES PVT. LTD (INDIA)
6.7.26	NOTE	Editorial	Delete this note. It is tutorial in nature and very general.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.7.26		Editorial	The paragraph 6.7.26 as written has two "shall" statements. The paragraph needs to be broken into two subparagraphs to comply with the API style guide.	Consider adopting the updated wording for the paragraph shown below. "6.7.26 All pumps (except shaft-driven pumps) shall be installed with flooded suctions to ensure self-priming."	Accepted.	Zack Zalesky	Chevron
6.7.26	New 6.7.26.1	Editorial	The paragraph 6.7.26 as written has two "shall" statements. The paragraph needs to be broken into two subparagraphs to comply with the API style guide.	Consider adopting the updated wording (second shall statement from 6.7.26) as 6.7.26.1 (see below). The current subparagraphs (6.7.26.X. and 6.7.26.X.X) will be renumbered (i.e., 6.7.26.1 becomes 6.7.26.2). Updated 6.7.26.1 "6.7.26.1 All pumps shall be installed with suction-block valves (unless the pumps are inside the reservoir) and with discharge-block and discharge check valves."	Accepted.	Zack Zalesky	Chevron

6.7.26.2		Editorial	Numbered (lettered) requirements in 6.7.26.2 contain nested "shall" statements. Convert the nested "shalls" to statements of fact.	Consider adopting the updated wording for 6.7.26.2 shown below. "6.7.26.2 Suction piping shall comply with the following. a) Be continuously vented or arranged to avoid pockets in which air can accumulate or become trapped. b) Each pump is designed with a separate suction line from the reservoir. c) The pump-suction lines are designed to avoid excessive piping loads on the pump casing flanges. d) Designs for suction piping, suction-block valves, pump casings, and all other components (particularly those for booster-pump arrangements) avoid the possibility of overpressure caused by leaking discharge check valves.	Accepted.	Zack Zalesky	Chevron
6.7.26.3		Technical	additional requirement	When centrifugal pumps are supplied, the discharge line between the pump discharge flange and the discharge check valve shall be continuously vented through an orifice back to the reservoir. The pump discharge check valve elevation shall be located below the normal operating oil level.	Accepted.		Chevron overlay
6.7.27.1		Editorial	The subparagraph 6.7.27.1 has two "shall" statements as written. This subparagraph will need to be broken up to stay in compliance with the API style guide.	Consider adopting the updated wording for the first subparagraph shown below. "6.7.27.1 The removable strainer shall be identified by a protruding tab."	Accepted.	Zack Zalesky	Chevron
6.7.27.1	New 6.7.27.2	Editorial	The subparagraph 6.7.27.1 has two "shall" statements as written. This subparagraph will need to be broken up to stay in compliance with the API style guide.	Consider adopting the updated wording (second shall statement from 6.7.27.1) as 6.7.27.2 (see below). The current subparagraphs (6.7.27.X. and 6.7.27.X.X) will be renumbered (i.e., 6.7.27.2 becomes 6.7.27.3). Updated 6.7.27.2 "6.7.27.2 The removable strainer shall have a mesh size adequate to stop all objects that can be damaging to the pump."	Accepted.	Zack Zalesky	Chevron
6.7.28		Technical	Unless otherwise specified, for rotary pumps, a permanent Y-type or T-type strainer with an austenitic stainless steel basket having a minimum open flow area equal to 150 % of the cross-sectional area of the suction pipe shall be installed in the suction piping of each pump.	No Y-type strainer is used when submerged pumps are used since integrated basket strainer is provided. It is also possible to use a T-type strainer instead of Y-type strainer.	Not accepted. This clause is not related to submerged pumps.		Huali (China)
6.7.28		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete "unless otherwise specified."	Accepted.	Zack Zalesky	Chevron
6.7.28.3		Technical	Add requirement	. . . or the suction piping.	Not Accepted. Outside of 80/20, since the strainer housing is typically the low point.		Chevron overlay

6.7.28.5		Technical	New para to permit easy maintenance.	The design, location and arrangement of strainers shall permit removal of the internal basket or element without removing the strainer body.	Accepted. Will also remove NOTE 1 on 6.7.28.4.		Shell
6.7.28.5		Technical	New: This requirement permits easy maintenance.	The design, location and arrangement of strainers shall permit removal of the internal basket or element without removing the strainer body.	N/A. Duplicate entry.		
6.7.30		Editorial	As currently written, 6.7.30 is a little confusing, since it contains two "if statements." Consider rephrasing to remove the second "if statement" and improve clarity.	Consider adopting the updated wording shown below. " [bullet] If specified, when a permanent strainer is being used, a compound-type pressure gauge shall be installed between a permanent strainer and the pump suction. "	Accepted.	Zack Zalesky	Chevron
6.7.32.1		Technical	Replace with	Start-up control of the standby lube oil pump shall be actuated by low oil-supply pressure indicated by a pressure transmitter with the sensor located in the controlled header downstream of the filters or low oil level in the overhead seal-oil tanks, as appropriate.	Not Accepted. TF felt this was addressing a problem that doesn't exist. The standard as written contains figures to provide guidance (e.g., Figure C.12).		Chevron overlay
6.7.32.4		Editorial	As currently written, 6.7.32.4 does not have a "shall" statement and thus is not enforceable. Convert the "should" to a "shall."	Consider adopting the updated wording shown below. "Scope of supply for controls and reset shall be determined by the purchaser and the vendor."	Accepted.	Zack Zalesky	Chevron
6.7.33		Editorial	This paragraph as currently written has two shall statements and will need to be updated to comply with the API style guide. The second "shall" statement says to follow the subparagraphs of 6.7.33, which is unnecessary. Remove the second shall statement.	Consider adopting the updated wording shown below. "Each exposed coupling shall have a coupling guard that is removable without disturbing the coupled elements."	Accepted.	Zack Zalesky	Chevron
6.7.34		Technical	Add	Non-spacer elastomeric couplings are not allowed for oil system service unless approved by Owner's Engineer.	Accepted in principle. The reference in 6.7.35 needs to be corrected (6th edition pointed to following 6.7.34 rather than 6.7.36 as an "if specified"), which would allow the user to specify non-spacer elastomeric coupling for lower horsepower drivers.		Motiva Overlay
6.7.35		Technical	Incorrect reference	Change " . . . shall meet the requirements of "6.7.34" to "6.7.36".	Accepted. Cut off on which coupling type is supplied at 30 hp was also addressed.		
6.7.35		Editorial	If specified, for driver power ratings below 22 kW (30 hp), couplings shall meet the requirements of 6.7.34.	The reference to 6.7.34 is a typo. This should reference to 6.7.35 instead	Accepted.		Sundyne
6.7.35		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.7.36		Technical	For driver power ratings 22 kW (30 hp) and larger, couplings shall be all-metal flexible element, spacer type couplings manufactured to meet AGMA 9000 Class 9 and shall comply with the following	Spacer is not provided for submerged pump or vertical mounted pump. This because the motor-pump assembly is self-centring (no need to disassembly the coupling spacer and perform alignment and run-out readings).	Not accepted. The suggested change is a statement/explanation of the existence of C-Face close coupling designs.		Huali (China)
6.7.36 d)		Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider converting this note to a definition.	Consider converting the note to a definition (and adding DBSE to the definitions).	Accepted.	Zack Zalesky	Chevron

6.7.36 e)	NOTE	Editorial	While this is indeed an example of how to achieve the guidance in "e", this is tutorial and this guidance can be found in other standards. Consider deleting this note.	Consider deleting this note, since this guidance can be found in other standards.	Accepted.	Zack Zalesky	Chevron
6.7.37		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.7.39		Technical		key and keyways and their tolerances shall conform to JIS Standard.	Not accepted; use of other standards are better addressed by an overlay.		Misuzu Industrial Corp (Kobe)
6.7.4	NOTE 1, NOTE 2	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the updated wording below that integrates the content of the note into the requirement. "The purchaser and driven equipment suppliers shall define the requirements for safe shutdown, which can include the use of a lube-oil rundown tank to provide bearing oil during rundown, the use of emergency oil pump with separate power source to provide cool-down oil subsequent to coast-down, or other features as specified."	Accepted.	Zack Zalesky	Chevron
6.7.41		Technical	add additional requirement to this para, This helps prevent coupling failure when subjected to transient torque from an induction motor.	Couplings shall have a minimum transient torque service factor for induction motor-driven applications of 400 % of driver torque at 1.0 service factor.	Not accepted. This is not the standard practice for sizing couplings. Therefore, it is better left to an overlay.		Shell
6.7.41		Technical	This requirement helps prevent coupling failure when subjected to transient torque from an induction motor.	Couplings shall have a minimum transient torque service factor for induction motor-driven applications of 400 % of driver torque at 1.0 service factor.	N/A. Duplicate comment.		Shell
6.7.45.1.3		Technical	6.7.45.1.3 Corresponding surfaces shall be in the same plane within 125 µm/m (0.002 in./ft) of distance between the pads. NOTE: This paragraph refers to surfaces for the same piece of equipment, for example, a centerline supported centrifugal pump with two separate, corresponding mounting pads. These pads may also be continuous as depicted in Figure XXX below.	The difference in slope between pump and driver mounting surfaces shall be 0.42 mm/m (≤ 0.005 in./ft) when evaluated in the axial (shaft-parallel) and transverse (shaft-perpendicular) directions. NOTE: Excessive angular deviation between pump and driver mounting planes may result in large shim stacks, reduced stiffness, and alignment instability. Purchasers may specify tighter criteria where required for high-speed or high-power-density equipment.	Accepted in principle; added text, Fig and additional new para to clarify acceptable slope limits.		Cobey
6.7.45.1.6		Technical	The coupled pieces shall be capable of being realigned in the field if the console is properly installed in accordance with API 686.	This will not applied to self-centring assemblies (e.g. motor driving submerged vertical pumps with self centring rim).	Not accepted. Already specified in API 614.		Huali (China)
6.7.45.1.7		Technical	add new para to prevent corrosion of mounting pads.	For offshore and coastal applications, mounting pads for the oil pump and driver shall be of noncorrosive material (i.e. 300 series stainless steel or equivalent).	Accepted. Will create as a bulleted requirement for 316L mounting pads (proposing as 6.5.16.11).		Shell
6.7.45.1.7		Technical	This requirement prevents corrosion of mounting pads.	For offshore and coastal applications, mounting pads for the oil pump and driver shall be of noncorrosive material (i.e. 300 series stainless steel or equivalent).	N/A. Duplicate comment.		

6.7.45.2		Technical	Shims are included for motors only as API 686 does not require shims for the pump.		Not accepted; 686 requirement is intended for process pumps.		Lube Power
6.7.45.2.1 & 2		Technical	When API-610 Pumps or ANSI B73.1 Centrifugal Pumps are required they may be installed without Shims per their respective standard.	Add " All pads for positive displacement oil pumps . . . "	Not accepted; 614 already permits shims under lube oil pumps.		Cobey
6.7.45.4		Technical	Substitute	Pumps and drivers shall be mounted on a separate sub-base mounted to the system console. Sub-base shall span the main console support beams.	Accepted in principle, will add as bulleted para.6.7.50		Motiva Overlay
6.7.45.6	NOTE	Editorial	Consider deleting this note. It is tutorial in nature and the content is contained in other equipment standards.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.7.5		Technical		Pumps seals will be supplied with 'standard manufacturer' mechanical seal.	Not accepted, manufacturer standard is seal is acceptable only if it meet the requirements of 6.7.5 b, 1 - 3.		COES (Italy)
6.7.5.c		Technical	Existing para c) Centrifugal pumps shall have end plates with throttle bushings as outlined in API 610.	When ANSI B73.1 Pumps are offered, API-610 features (end plate with throttle bushing) are excluded.	Not accepted, but removed reference to API 610.		Cobey
6.7.6		Technical	Replace with	Pressure-containing components shall be made of carbon steel or alloy steel.	Not accepted, 90/10 rule applies to cast iron casings for submerged pumps.		Chevron overlay
6.7.7		Technical	Specify motor-driven main oil pump as default.	Unless otherwise specified, main oil pump shall be motor driven.	Accepted, added "Main" to para. 6.7.7.1		KBR Overlay
6.7.7		Technical	Revise	Unless otherwise specified on the data sheet, main and spare oil pumps shall be electric motor driven. Power for motors shall be provided from independent electrical circuits.	Accepted in principle; see above.		Motiva Overlay
6.7.7		Technical	additional requirement	If steam is not available, two motor-driven pumps with electric feeds from independent sources shall be used.	Accepted in principle; see above.		Chevron overlay
6.7.7.1	NOTE 3	Editorial	NOTE 3 on 6.7.7.1 may be better suited under 6.7.7. Consider relocating it.	Move NOTE 3 from 6.7.7.1 to 6.7.7.	Accepted.	Zack Zalesky	Chevron
6.8.1.12		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete "unless otherwise specified."	Accepted.	Zack Zalesky	Chevron
6.8.1.13		Technical	New para	[bullet] Lube-oil heat exchangers shall be sized for 150% of total cooling load shown on the data sheet.	Not accepted; 80/20 rule.		Chevron overlay
6.8.1.15		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.8.1.15.6		General	bullet & diamond: If specified, the temperature control valve shall be provided with a manual override that permits operation independent of temperature conditions.	Add Comment – Manual Override may be accomplished with on-valve override or with valve by-pass piping configurations per API Figure H- requirements a block & bypass valve arrangement.	Accepted in principle, will add bulleted option for block & bypass around temperature control valve.		Cobey
6.8.1.15.8		Technical	AMOT's normal recommendation in sizing the three-way thermostatic valves is to select a pressure drop between 0.14 - 0.5 bar (2 - 7 psi). This exceeds the pressure drop through the cooler in many of our cases. We are unsure of the intention of this requirement.	Recommendation is to delete clause.	Not accepted since 6.8.1.15.8 & 6.8.1.15.9 already stipulate the pressure drop should not exceed that through the heat exchanger (should indicates good design practice, not a hard limit).		Sundyne
6.8.1.2		Technical	Add: Dual oil coolers shall be located and arranged to permit pulling either bundle with the unit in operation.	To existing sentence Dual oil coolers shall be located and arranged to permit pulling either bundle with the unit in operation.	Accepted in principle, will add to 6.2.2 text from VDDR addressing requirement for maintenance clearances and dismantling clearances.		KBR Overlay

6.8.1.21		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified." To comply with SOME's directive to reduce the number of technical notes, consider integrating the content of this note into the requirement.	Consider adopting the updated wording shown below: "Heat exchanger oil drains shall be manifolded, but not together with filter clean side drains to avoid potential cross-contamination."	Accepted.	Zack Zalesky	Chevron
6.8.1.22		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.8.1.22	NOTE	Editorial	While the content of this technical note is indeed valid, based on the guidance from the SOME to eliminate notes that are tutorial in nature, should it be deleted? Consider deleting it.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.8.1.25		Technical	Add new requirement.	Add requirement: water side design pressure shall be at least 2/3 the oil side design pressure.	Not accepted, bulleted para. 6.8.1.25 gives the purchaser an option to specify when oil-side operating pressure shall be less than the water-side operating pressure; heat exchanger design details are covered by other standards such as TEMA or other code specified for heat exchangers.		KBR Overlay
6.8.1.25		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified." To comply with SOME's directive to reduce the number of technical notes, consider integrating the content of NOTE 1 into the requirement.	Consider adopting the updated wording shown below. "To reduce the potential for contamination of water with oil, particularly on once-through water systems, the oil-side pressure shall be less than the water-side operating pressure."	Accepted.	Zack Zalesky	Chevron
6.8.1.4		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.8.1.6		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.8.1.7		Editorial	To comply with SOME's directive to reduce the number of technical notes and remove "unless otherwise specified", consider integrating the content of this note into the requirement (6.8.1.7) and removing the "unless otherwise specified."	Consider adopting the updated wording shown below. "For dual heat exchanger arrangements, an equalization/fill line with a suitably sized restriction orifice and a block valve shall be provided for filling, switching, and thermal overpressure protection of the heat exchangers including in the event of a fire, with the equalization/fill valve locked or cap sealed in the open position."	Accepted.	Zack Zalesky	Chevron
6.8.1.8		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.8.1.8		Editorial	To comply with SOME's directive to reduce the number of technical notes, consider integrating the content of this note into the requirement (6.8.1.8).	Consider adopting the updated wording shown below. "In lieu of the requirements of 6.8.1.7, for dual heat exchanger arrangements, the vendor shall provide thermal overpressure protection of the oil side of the heat exchangers by providing separate thermal relief valves on each heat exchanger (refer to 6.9.3 for requirements regarding routing of oil from discharge of thermal relief valves to the reservoir."	Accepted.	Zack Zalesky	Chevron

6.8.1.9		Technical	cooling water system or systems shall be designed on the water side for the following conditions: [...] - Maximum inlet temperature: 30° C.	Water supply temperature may exceed 30°C, depending on ambient conditions.	Not accepted, exceptionally high cooling water temperature can be addressed, if needed, on a project-specific basis.		COES (Italy)
6.8.1.9		Technical	Revise "minimum system pressure" to "maximum allowable working pressure".	Modify "minimum system pressure" to "maximum allowable working pressure".	Accepted in principle; changed "minimum system pressure" to minimum pressure rating		KBR Overlay
6.8.1.9		Technical	Add new requirement.	Add: values for maximum allowable working pressure 1000 kPa (10 bar) (150 psig).	Not accepted; 150 psig considered too restrictive.		KBR Overlay
6.8.1.9		Technical	Add new requirement.	Add requirement for hydrotest pressure at 1.5 x MAWP.	Not accepted; Section 8 code requirement is 1.3		KBR Overlay
6.8.1.9		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete "unless otherwise specified."	Accepted.	Zack Zalesky	Chevron
6.8.2.2.4		Technical	U-bend tubes are not permitted. – Some users have preferred U-Tubes in the oil coolers. I don't recall the reason for changing this in 6th edition	U-bend tubes are permitted when approved by the purchaser.	Not accepted; 90/10 rule.		Cobey
6.8.2.6		Technical	Modify requirement	Heat exchanger channels and covers shall be carbon steel. Heat exchanger shell shall be austenitic stainless steel.	Not accepted; 90/10 rule.		KBR Overlay
6.8.2.6.3		Technical	Add new para	Where copper alloys are prohibited, tubes and tubesheets shall be austenitic stainless steel.	Not accepted; 90/10 rule.		KBR Overlay
6.8.2.6.3		Technical	add new para - specifies the correct materials for salt or brackish water service to prevent corrosion.	Materials of construction for salt or brackish water cooling service shall be in accordance with Table 12.	Not accepted; 90/10 rule.		Shell
6.8.2.6.3	Table 12	Technical	Add Table 12 - materials for salt or brackish water service within the limitations stated in the sections referred to in footnote a.	see attachment	Not accepted; 90/10 rule.		Shell
6.8.2.6.3	Table 12	Technical	Add Table 12 - materials for salt or brackish water service within the limitations stated in the sections referred to in footnote a.		Not accepted; 90/10 rule.		Shell
6.8.2.6.3		Technical	This requirement specifies the correct materials for salt or brackish water service to prevent corrosion.	Materials of construction for salt or brackish water cooling service shall be in accordance with Table 12.	Not accepted; 90/10 rule.		
6.8.2.6.3	Table 12	Technical	Add new Table ; This table specifies the materials for salt or brackish water service within the limitations stated in the sections referred to in footnote a.		Not accepted; 90/10 rule.		
6.8.2.6.3.1		Technical	Add new para.: This requirement prevents premature corrosion within the limitations stated resulting in increased heat exchanger life.	For filtered seawater, 90-10 Cu-Ni shall have a fluid velocity less than or equal to 2.5 m/s (8.3 ft/s).	Not Accepted, 90/10 rule.		Shell
6.8.2.6.3.1		Technical	add new para - prevents premature corrosion within the limitations stated resulting in increased heat exchanger life.	For filtered seawater, 90-10 Cu-Ni shall have a fluid velocity less than or equal to 2.5 m/s (8.3 ft/s).	Not Accepted, 90/10 rule.		
6.8.2.6.3.1		Technical	New para: This requirement prevents premature corrosion within the limitations stated resulting in increased heat exchanger life.	For filtered seawater, 90-10 Cu-Ni shall have a fluid velocity less than or equal to 2.5 m/s (8.3 ft/s).	Not Accepted, 90/10 rule.		
6.8.2.6.3.2		Technical	Add new para.: This requirement prevents premature corrosion within the limitations stated resulting in increased heat exchanger life.	For filtered seawater, 70-30 Cu-Ni shall have a fluid velocity less than or equal to 3.0 m/s (9.8 ft/s).	Not Accepted, 90/10 rule.		Shell
6.8.2.6.3.2		Technical	add new para - prevents premature corrosion within the limitations stated resulting in increased heat exchanger life.	For filtered seawater, 70-30 Cu-Ni shall have a fluid velocity less than or equal to 3.0 m/s (9.8 ft/s).	Not Accepted, 90/10 rule.		

6.8.2.6.3.2		Technical	New para: This requirement prevents premature corrosion within the limitations stated resulting in increased heat exchanger life.	For filtered seawater, 70-30 Cu-Ni shall have a fluid velocity less than or equal to 3.0 m/s (9.8 ft/s).	Not Accepted, 90/10 rule.		
6.8.2.6.3.3		Technical	Add new para.: This requirement prevents galvanic corrosion.	Super duplex stainless steel and CuNi parts shall not be mixed.	Not accepted; tutorial on galvanic corrosion is outside the scope of 614.		Shell
6.8.2.6.3.3		Technical	add new para - prevents galvanic corrosion.	Super duplex stainless steel and CuNi parts shall not be mixed.	Not accepted; tutorial on galvanic corrosion is outside the scope of 614.		
6.8.2.6.3.3		Technical	New para: This requirement prevents galvanic corrosion.	Super duplex stainless steel and CuNi parts shall not be mixed.	Not accepted; tutorial on galvanic corrosion is outside the scope of 614.		
6.8.2.6.3.4		Technical	Add new para.: This requirement prevents premature corrosion within the limitations stated resulting in increased heat exchanger life.	Super duplex stainless steel shall not be used in non-de-aerated seawater at temperatures above 30 °C (86 °F). NOTE With crevices and depending on chlorination, this limit can be reduced.	Not accepted; tutorial on galvanic corrosion is outside the scope of 614.		Shell
6.8.2.6.3.4		Technical	add new para - prevents premature corrosion within the limitations stated resulting in increased heat exchanger life.	Super duplex stainless steel shall not be used in non-de-aerated seawater at temperatures above 30 °C (86 °F).	Not accepted; tutorial on galvanic corrosion is outside the scope of 614.		
6.8.2.6.3.4	NOTE	Technical	Add NOTE	NOTE With crevices and depending on chlorination, this limit can be reduced.	Not accepted; tutorial on galvanic corrosion is outside the scope of 614.		
6.8.2.6.3.5		Technical	This requirement prevents premature corrosion resulting in increased heat exchanger life.	Titanium tubes shall be used in non-de-aerated seawater above 30 °C (86 °F) without a velocity limitation.	Not accepted; tutorial on galvanic corrosion is outside the scope of 614.		Shell
6.8.2.6.3.5		Technical	add new para - prevents premature corrosion resulting in increased heat exchanger life.	Titanium tubes shall be used in non-de-aerated seawater above 30 °C (86 °F) without a velocity limitation.	Not accepted; tutorial on galvanic corrosion is outside the scope of 614.		
6.8.3.1		Technical	Substitute	The use of plate-and-frame heat exchangers are not allowed.	Not accepted; "if specified" is sufficient for this paragraph.		Motiva Overlay
6.8.3.1	NOTE	Editorial	API 662 has been withdrawn. API 662, Part 1 has been superseded by API 667.	Update reference from API 662, Part 1 to API 667. Update reference in bibliography.	Accepted.	Dave Remic	Siemens Energy
6.8.4.1		Technical	Add	The use of air-cooled heat exchangers requires Owner's Engineer approval.	Accepted in principle, will revise text to "in specified" as stated in 6.8.3.1		Motiva Overlay
6.8.4.1		Editorial	As written, 6.8.4.1 is tutorial in nature and does not contain a "shall" statement. Consider deleting this paragraph and the accompanying note since it is tutorial in nature.	Delete 6.8.4.1 as it is tutorial in nature and does not contain any enforceable design requirements.	Accepted in principle; re-worded as a shall statement, and deleted NOTE.	Zack Zalesky	Chevron
6.8.4.2		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete "unless otherwise specified."	Accepted.	Zack Zalesky	Chevron
6.8.4.4.11		Technical	Add new para	Mounting frame for freestanding air coolers shall be self-supporting. Structural members shall be designed without the need for field welding.	Not accepted; design requirements already covered in 6.8.4.1.		KBR Overlay
6.8.4.4.11		Technical	new para	[Add] 6.8.4.4.11 Low-noise, toothed, anti-static synchronous belts shall be used.	Not accepted; design requirements already covered in 6.8.4.1.		Chevron overlay
6.8.4.4.11		Technical	add new para because U-bends are difficult to clean.	U-bends are not permitted in air-cooled heat exchangers.	Accepted in principle; moved text prohibiting U-bends from shell & tube section to general section 6.8.1)		
6.8.4.4.11		Technical	New para: U-bends are difficult to clean.	U-bends shall not be permitted in air-cooled heat exchangers.	Accepted in principle; moved text prohibiting U-bends from shell & tube section to general section 6.8.1)		Shell
6.8.4.4.13		Technical	Add new para	If it is not possible to shop test the air to oil heat exchanger with the complete oil system, the Manufacturer of the air to oil heat exchanger shall demonstrate conformity to the criteria for system cleanliness shown in 9.3.3.11 prior to shipment.	Not accepted; demonstration of cleanliness requirement is already addressed in 9.3.3.13.		KBR Overlay

6.8.4.4.2		Technical	new para	Add new bulleted para: heat exchanger tubes and headers shall be 316L stainless steel.	Not accepted; user can specify alternate materials in an overlay or on the data sheet.		Chevron overlay
6.8.4.4.3		Editorial	While the content of this note is indeed an accurate statement (disclaimer on potential for chloride SCC in austenitic SS), it could be applied to many references to austenitic SS. This vulnerability is well document in the industry. Consider deleting this tutorial note.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.8.4.4.7		Technical		Air coolers utilize turbulence promoters.	Not accepted, turbulence promoters are an alternative which may be specified by the purchaser.		Elliott
6.8.4.4.7.1		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.8.4.4.8		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.8.4.4.8		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.8.4.4.9		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete "unless otherwise specified."	Accepted.	Zack Zalesky	Chevron
6.9.1.1	NOTE 1	Editorial	To comply with SOME's directive to reduce the number of technical notes, consider integrating the reference in NOTE 1 into the requirement and deleting NOTE 1.	Consider adding "Refer to Annex E" to the end of subparagraph 6.9.1.1 and deleting NOTE 1.	Accepted.	Zack Zalesky	Chevron
6.9.1.1	NOTE 4	Editorial	Due to changes in numbering update reference from "Annex L" to "Annex K."	Update reference to "Annex K" due to document renumbering.	Accepted.	Zack Zalesky	Chevron
6.9.1.10		Technical	If specified, the filter housings shall be equipped with valved vents and clean- and dirty-side valved drain connections.	For a fully machined Filter design, where the Filter housings are smaller in Design, with no welding, can the Vent & Drain Valves be of Needle Valve type (screwed design) instead of going with the heavy Gate or Globe Valves (Welded or Flanged design) as per the Piping class	Not accepted; since 6.9.1.9 allows both threaded and flanged filter housing connections.	MATHEW C.T.	ENPRO INDUSTRIE S PVT. LTD (INDIA)
6.9.1.11		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME. I believe Travis has shared some regulatory restrictions on the use of car-sealing open valves. Do any references to car-sealing open valves need to be updated based on those requirements?	Delete "unless otherwise specified" and update the guidance for car-sealing open valves if necessary based on the regulatory restrictions that Travis has shared previously.	Accepted.	Zack Zalesky	Chevron
6.9.1.11	NOTE	Editorial	Delete this note. The guidance on the value of equalization/fill line is already covered under 6.8.1.7 and does not need to be repeated here.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.9.1.12		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.9.1.13		Technical	New para: This requirement allows easy access for draining operations.	[bullet] If specified, filter drain connections shall be piped to a convenient location at the skid edge.	Accepted in principle; added text to 6.9.4 to extend to the skid edge. Added same text to 6.8.1.21 for consistency.		Shell

6.9.1.2		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified." To comply with SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the updated wording below. "[bullet] For systems where shutting down the equipment serviced by the oil system to change the filter element is acceptable as determined by the purchaser, a single filter shall be provided."	Accepted.	Zack Zalesky	Chevron
6.9.1.3		Editorial	To comply with SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the updated wording below. "Since heat exchangers can trap and release dirt and debris during operation, the filter(s) shall be located downstream of the heat exchangers."	Accepted.	Zack Zalesky	Chevron
6.9.1.8		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.9.12	NOTE	Editorial	To comply with SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the suggested wording below in order to delete the note. "6.9.12 Systems with booster pumps shall be provided with dual filters downstream of the pumps to protect the downstream equipment from damage due to particles resulting from pump wear."	Accepted.	Zack Zalesky	Chevron
6.9.13		Editorial	To comply with SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the following wording that integrates the content of the note into the requirement. "6.9.13 [bullet] Filtration requirements of serviced equipment, such as hydraulic servo valves, shall be used when determining whether more stringent filtration requirements are necessary for the control-oil system."	Accepted.	Zack Zalesky	Chevron
6.9.14	DS Pg 5 Line 44	Technical		If specified, sample points in common return line are to be in interconnecting piping to have a homogenous mixture for sampling.	Not accepted; common sample point would not allow accurate identification of contaminant source.		Elliott
6.9.14		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.9.14.3		Technical	New para	Oil sample ports shall be provided in the drain piping from each bearing. Sample points common to multiple bearings (in lieu of individual bearings) requires approval of Owner's Engineer.	Not accepted; 90/10 rule.		Motiva Overlay
6.9.15		Technical	Add new para	If a special-purpose oil system (diamond selected) is specified on the data sheet, the following features shall be incorporated.	Accepted in principle; added separate bulleted para.		KBR Overlay
6.9.15.1		Technical	add new para	Filter housings and covers shall be 300 series stainless steel.	Accepted; added new bulleted para.6.9.15		KBR Overlay
6.9.15.2		Technical	add new para	The high point bleed (vent) shall be piped back separately to the reservoir to permit the venting operation to be performed without leaking oil onto the console. Oil filter vent piping shall be arranged to allow removal of a spool piece between the filter housing and the vent line block valve to allow clearance for filter cartridge removal. Vent location shall be at the high point of the filter housing.	Accepted in principle; see 6.9.6		KBR Overlay
6.9.2		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

6.9.3		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.9.3	NOTE	Editorial	To comply with SOME's directive to reduce the number of technical notes, consider deleting this note as it is tutorial in nature and does not provide any further clarification or guidance on how to apply the requirement.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.9.4		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.9.6		Editorial	Since this is already a bulleted paragraph, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
6.9.6	NOTE 1, NOTE 2	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider deleting NOTE 1 and NOTE 2. If the TF believes that keeping the reference from NOTE 1 is important, then it should be integrated into the bulleted requirement. The content of NOTE 2 is tutorial.	Delete NOTE 1 and NOTE 2.	Accepted.	Zack Zalesky	Chevron
6.9.7		Technical	This reduces bypass of oil around the filter due to misalignment of filter elements.	Replace list section e) with: e) The number of filter cartridges in a stack shall be one (i.e. no multi-layer stacking allowed). Note: also delete f) to avoid contradiction with this new requirement.	Accepted in principle; stacked cartridges are no longer permitted.		Shell
6.9.7		Technical	This requirement provides secure retention of the filter cartridge and prevents over-tightening of the filter housing cover.	Add new list section: h) The filter cartridge shall be retained by an internal hold-down mechanism, other than the filter housing cover, with stops.	Not accepted; would exclude too many current designs.		Shell
6.9.7 d)		Editorial	To comply with SOME's directive to reduce the number of technical notes, consider deleting this note as it is tutorial in nature and does not provide any further clarification or guidance on how to apply the requirement.	Delete the note.	Accepted.	Zack Zalesky	Chevron
6.9.7 f)		Technical	delete para - to be consistent with proposed change for 6.9.7 e)	delete.	Accepted.		Shell
6.9.7 i)		Technical	Add new section i): This requirement prevents damage to the filter elements.	i) Inlets to filter housings and the fill/equalization line or orifice shall prevent direct impingement of oil jet onto the filter element.	Not accepted; this feature already commonly incorporated.		Shell
6.9.7 j)		Technical	Add new section j): This requirement permits easy replacement when seats become worn.	j) Seals or resilient seats for filter elements shall be part of the filter element (i.e. not be on the filter housing or head).	Not accepted; already a common design.		Shell
6.9.8	NOTE	Editorial	To comply with SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the suggested wording below in order to delete the note. "6.9.8 Nonhygroscopic filter elements shall be used (refer to Annex E)."	Accepted.	Zack Zalesky	Chevron
6.9.9		General	Filter manufacturer comment: Verify Soft Conversion is Ok for Temperature: 40 °C (100 °F) Filter Supplier has commented 40 C equates to 104 F not 100 F	Not sure this is a necessary change?	Not accepted; soft conversion is accepted in Style Guide.	Chuck Parker	G.J. Oliver
7.1 16.1		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron

7.1.13.1		Technical	Flanged connections are more robust. It is less beneficial in terms of cost and availability to obtain flanged connections on small instrument connections and tubing.	Add 7.1.13.1: Threaded connections shall not be used, except for instrument connections downstream of the root valve and for tubing systems.	Not accepted; too broad a restriction to universally prohibit threads.		Shell
7.1.13.2		Technical	prevents galling in stainless steel joints.	Add 7.1.13.2: Tubing fittings shall have rolled threads.	Not accepted; those threads are typically rolled already.		Shell
7.1.14		Technical	new para	Instrument and control air tubing shall be of stainless steel and shall use flareless (compression) type fittings.	Not accepted; ss already specified, not practical to exclude flared fittings.		KBR Overlay
7.1.14		Editorial	This paragraph as written contains two "shall" statements. To comply with the API style guide the paragraph will need to be broken up and the subsection renumbered.	Consider adopting the updated wording below as 7.1.14 and 7.1.15 NEW. Paragraphs currently numbered 7.1.15 through 7.1.41 will need to be renumbered accordingly. "7.1.14 A process-compatible thread sealant/lubricant that meets the proper temperature specification shall be used on all non-seal-welded threaded connections. 7.1.15 Tape shall not be used on threaded connections."	Accepted.	Zack Zalesky	Chevron
7.1.15		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
7.1.15	NOTE 1, NOTE 2	Editorial	To comply with the SOME's directive on the reduction of technical notes, consider condensing the content of NOTE 1 and NOTE 2 into a single note.	Consider adopting the updated wording below (combining NOTE 1 and NOTE 2 into a single note) "NOTE Seal welding is not the preferred method to join piping and accessories for a number of reasons including to the potential for crevice corrosion, corrosion from process fluids, residual stresses on the threads, and difficulty of inspecting joints. However, seal welding can be necessary in situations where there are no other practical solutions. Some examples are:[...]"	Accepted.	Zack Zalesky	Chevron
7.1.16.1		Technical	Unless otherwise specified, the Class system applies and all flanges shall conform to ASME B16.1, B16.5, B16.42 or B16.47 Series B as applicable.	When the equipment is used in China, HG/T20615 or SH/T3406 standards will be used. They are equivalent to ASME B16.5.	Not accepted; purchaser to specify if other international standards apply.		Huali (China)
7.1.16.10		Editorial	This subparagraph contains two shall statements. Split this subparagraph into two subparagraphs to remain compliant with the API style guide. Renumber the subparagraphs accordingly.	Consider adopting the updated wording below as 7.1.16.10 and 7.1.16.11 NEW. Subparagraphs currently numbered 7.1.16.11 through 7.1.16.13 will need to be renumbered accordingly. "7.1.16.10 [bullet] Machined and studded connections shall conform to the facing and drilling requirements of ASME B16.1, B16.5, B16.42 or B16.47 or EN 1092-1, EN 1092-2, as specified. 7.1.16.11 Studs and nuts shall be provided installed, and the first 1.5 threads at both ends of each stud shall be removed."	Accepted.	Zack Zalesky	Chevron

7.1.16.11		Editorial	This subparagraph contains two "thoughts" but a single "shall" statement. Break the subparagraph into two separate paragraphs to stay consistent with the intent of the style guide. Additionally, it contains an "unless otherwise specified," which should be deleted as well.	Consider adopting the updated wording below as 7.1.16.11 and 7.1.16.12 NEW. Subparagraphs currently numbered 7.1.16.12 through 7.1.16.13 will need to be renumbered accordingly. "7.1.16.11 Machined and studded connections and flanges not in accordance with ASME B16.1, B16.5, B16.42 or B16.47 or EN 1092-1, EN 1092-2 shall require purchaser's approval. 7.1.16.12 The vendor shall supply mating flanges, studs, and nuts for connections not in accordance with ASME B16.1, B16.5, B16.42 or B16.47 or EN 1092-1, EN 1092-2."	Accepted.	Zack Zalesky	Chevron
7.1.16.12		Technical	With purchaser approval, SAE 4-bolt flanges can be used for higher-pressure applications, or for when space restrictions exist. These flanges are available as either 3000 psi (SAE Code 61) or 6000 psi (SAE Code 62) ratings in accordance with SAE J518 or ISO 6162-1 and ISO 6162-2.	Pumps and filters SAE flanges are a common connection, and no other option exist. Consider a caveat for equipment connections only, but purchaser approval for end-to-end pipe connections.	Accepted in principle; SAE 4-bolt flanges are only permitted for equipment connections or where space restrictions exist.		Sundyne
7.1.16.2		Technical	If the PN system is specified, all flanges shall conform to EN 1092-1 or EN 1092-2 as applicable, except as specified in 7.1.16.3 through 7.1.16.9.	When the equipment is used in China, HG/T20592 standards will be used. They are equivalent to EN 1092-1, EN1092-2.	Not accepted; purchaser to specify if other international standards apply.		Huali (China)
7.1.16.2		Editorial	Consider rephrasing to remove the hidden incognito "if specified".	Consider adopting the updated wording below: "7.1.16.2 [bullet] For the PN system, all flanges shall conform to EN 1092-1 or EN 1092-2 as applicable, except as specified in 7.1.16.3 through 7.1.16.9."	Accepted.	Zack Zalesky	Chevron
7.1.16.4		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
7.1.16.4	NOTE	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider deleting this note as it is tutorial in nature and the content is readily available elsewhere.	Delete the note.	Accepted.	Zack Zalesky	Chevron
7.1.16.5		Technical	Since the standard already forbids the use of cast iron (including ductile and malleable iron) per 6.2.14, would it be more appropriate to delete this bulleted requirement/subparagraph?	Delete the subparagraph.	Accepted in principle, deleted reference to cast iron flanges.	Zack Zalesky	Chevron
7.1.16.6		Editorial	The use of "unless otherwise agreed" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise agreed".	Accepted.	Zack Zalesky	Chevron
7.1.16.8		Editorial	This subparagraph contains two shall statements. Split this subparagraph into two subparagraphs to remain compliant with the API style guide. Renumber the subparagraphs accordingly.	Consider adopting the updated wording below as 7.1.16.8 and 7.1.16.9 NEW. Subparagraphs currently numbered 7.1.16.9 through 7.1.16.13 will need to be renumbered accordingly. "7.1.16.8 Flanges shall be full faced or spot faced on the back. 7.1.16.9 Flanges shall be designed for through bolting."	Accepted.	Zack Zalesky	Chevron

7.1.17		Editorial	To comply with the SOME's directive to reduce the number of technical notes, integrate the content of NOTE 2 in 7.1.18 into 7.1.17.	Consider adopting the verbiage shown below for 7.1.17 and deleting NOTE 2 under 7.1.18. "7.1.17 Since socket welded connections have the potential to trap dirt and debris, socket welded connections are not permitted within the lube-, control-, or seal-oil systems"	Accepted.	Zack Zalesky	Chevron
7.1.19		Technical	Vendor equipment (such as main motors) often are built with NPS 1¼" oil drains. We are unable to get the vendor to change the bearing housings to comply with this section.	Recommendation is to add an exception sentence for vendor driven equipment. The proposed addition to the clause states, "Exceptions can be made for vendor driven equipment and connections to the equipment (i.e. motor drains)."	Not accepted; 90/10 rule.		Sundyne
7.1.2		Technical	Replace Flange Gasket requirements in tables 3, 4, 5, and 6 with the following:	All flanged gaskets shall be spiral-wound with graphite filler, 316 windings and inner ring with carbon steel external centering ring.	Not accepted; 90/10 rule.		Motiva Overlay
7.1.2 a)		Editorial	Assuming previous comment about updating wording in Section 1 (Scope) to clearly exclude DGS and GT high pressure fuel systems, delete the reference to those here.	Delete the reference to DGS and fuel systems, since those are already excluded in the scope.	Accepted.	Zack Zalesky	Chevron
7.1.2 a) 5)		Editorial	Assuming previous comment about updating wording in Section 1 (Scope) to clearly exclude DGS systems, delete the reference to DGS here.	Delete the reference to DGS, since they are already excluded in the scope.	Accepted.	Zack Zalesky	Chevron
7.1.20.1		Technical	New para	All compression fittings shall be of the two-ferrule design.	Not accepted; would unnecessarily exclude acceptable designs.		Motiva Overlay
7.1.20.1		Technical	Two-ferrule tube fittings offer predictable, leak-tight performance up to a rated pressure of AISI Type 316 and 304 stainless steel tubing, thus providing enhanced sealing and vibration fatigue resistance.	Add 7.1.20.1: Tubing compression fittings shall be of two-ferrule design.	Not accepted; would unnecessarily exclude acceptable designs.		Shell
7.1.20.2		Technical	New para	Couplings in tubing systems shall not be located close to high temperature equipment components such as turbine casings or steam piping.	Accepted in principle; Add 7.1.20.1: Couplings / unions in tubing systems shall be located at least 1 m (3.28 ft) from equipment components such as turbine casings and steam piping where there is a risk of ignition of the fluid.		Motiva Overlay
7.1.20.2		Technical	High temperature in this case is defined as the temperature at which there is a risk of ignition of the fluid which could come in contact with the hot surface in case of leakage from the coupling. The heat can cause the coupling to expand and subsequently fail or leak. This requirement prevents ignition by maintaining a safe distance between the couplings and hot surfaces.	Add 7.1.20.2: Couplings in tubing systems shall be located at least 1 m (3.28 ft) from high-temperature equipment components such as turbine casings and steam piping.	Accepted in principle; Add 7.1.20.1: Couplings / unions in tubing systems shall be located at least 1 m (3.28 ft) from equipment components such as turbine casings and steam piping where there is a risk of ignition of the fluid.		Shell
7.1.21		Technical	It is more difficult to install larger sizes of tubing to achieve a good seal.	Replace section with: Tubing size shall not exceed DN 25 (NPS 1).	Not accepted; too restrictive.		Shell
7.1.21	NOTE	Editorial	To comply with the SOME's directive to reduce the number of technical notes, integrate the content of the note into the requirement.	Consider adopting the wording shown below and deleting the note. "7.1.21 Tubing sizes larger than 1 in. (25 mm) require purchaser's approval, since special tooling and assembly methods are needed for tubing sizes larger than 1 in. (25 mm)."	Accepted.	Zack Zalesky	Chevron

7.1.25		Technical	Stainless steel plugs are more resistant to corrosion. Tapped openings allow for removal of the plug during maintenance.	Replace section with: Tapped openings shall be supplied with threaded, non-seal-welded, round-head, solid stainless steel plugs in accordance with ASME B16.11.	Not accepted; risk of galvanic corrosion.		Shell
7.1.26		Technical	Current text: Gas metal arc, flux core, or submerged arc welding may be used, if approved, for filler passes on NPS 6 (DN 150) and larger pipe.	Change from 6" to 3".	Accepted in principle; deleted ", may be used, if approved, for filler passes on NPS 6 (DN 150) and larger pipe."		Cobey
7.1.27		Technical	Weld neck flanges provide the greatest factor of safety and fatigue strength, and are suitable for all pressures and temperatures. Raised faces provide high pressure on a small gasket area, increasing containment capability, and can tolerate more misalignment. Weld-neck flanges also prevent accumulation of dirt which could occur in slip-on flanges.	Add to: Weld neck raised face flanges shall be provided on oil supply piping downstream of the oil filters.	Not accepted; too restrictive.		Shell
7.1.27.1		Technical	New para	Stainless steel weld neck flanges, raised face, shall be used for all flanged connections in pressurized oil and gas lines.	Not accepted; too restrictive.		Motiva Overlay
7.1.27.2		Technical	New para	Stainless steel slip-on flanges may be applied in atmospheric oil drain lines.	Not accepted; already permitted.		Motiva Overlay
7.1.27.3		Technical	New para	Double block and bleed valves shall be used in atmospheric vents and drains in hydrogen or toxic service.	Not accepted; already available in 6.2.18		Motiva Overlay
7.1.28		Technical	As written, portions of 7.1.28 are in conflict with 6.2.14. Consider updating 7.1.28 to remove the conflict or delete 7.1.28 (6.2.14 requires steel for components that contain oil).	Delete 7.1.28 since the use of cast iron piping components or valves is not recommended regardless of pressure rating (the exhaust section of GP steam turbines will often be cast iron but the mating flange is steel).	Accepted.	Zack Zalesky	Chevron
7.1.28.1		Technical	This requirement provides corrosion resistance for valves and cleanliness of the oil system resulting in reduced maintenance.	Add 7.1.28.1: Flanges and valve internals in contact with oil shall be stainless steel ASTM A312 Type 304 or 316.	Not accepted; too restrictive.		Shell
7.1.28.2		Technical	provides valve corrosion resistance and cleanliness of the oil system. Oil used for steam turbine applications is more likely to contain water contamination, causing corrosion.	Add 7.1.28.2: For steam turbine applications, valves downstream of oil filters shall be stainless steel ASTM A312 Type 304 or 316.	Not accepted; too restrictive.		Shell
7.1.29		Editorial	This paragraph contains two shall statements. Split this subparagraph into two subparagraphs to remain compliant with the API style guide. Renumber the paragraphs accordingly.	Consider adopting the updated wording below as 7.1.29 and 7.1.30 NEW. Paragraphs currently numbered 7.1.30 through 7.1.41 will need to be renumbered accordingly. "7.1.29 Hand-operated block and bypass valves shall have bolted bonnets and glands. 7.1.30 For service ratings greater than or equal to ANSI Class 900, block valves may be of bolted bonnet, welded bonnet, or no-bonnet construction with a bolted gland; these valves shall be suitable for repacking under pressure."	Accepted.	Zack Zalesky	Chevron
7.1.3		Technical	new requirement	All flanges shall be weld neck type. The use of other types of flanges require Purchaser approval. When slip-on flanges are approved, they shall be double-welded. Slip-on flanges shall be same material as the piping.	Not accepted; too restrictive.		KBR Overlay

7.1.3		Technical	new requirement	Gaskets for raised flanges shall be spiral wound, Type 316 stainless steel. Gaskets for ring joint flanges shall be soft iron octagonal ring.	Not accepted; too restrictive.		KBR Overlay
7.1.3	Tables 3 - 6	Technical	Current edition states slip-on flanges can be used but does not state explicitly if both sides are to be welded.	Use of slip-on flanges, welded single side or both sides or leave at purchaser discretion?	Not accepted; already covered by B31.3		Sundyne
7.1.3	Table 7	Technical	Sensing line take-off for example a 2" branch run with ¾" tee can be schedule 40S to connect welded root valve. As written a 2" branch run with ¾" tee would have to default to sch 80 because of the ¾" branch.	Add note or clarification that pipe sizes are only relevant for flowing lines.	Not accepted; 90/10 rule.		Sundyne
7.1.3	Table 3	Technical	Spiral Wound Gasket is essential in oil service. This requirement provides ease of installation, strong stress compensation, stable and reliable sealing performance, stability and sealability.	In sixth row "Flange gaskets", replace first and second paragraphs with "All ANSI piping classes shall have spiral wound gaskets."	Not accepted; too restrictive.		Shell
7.1.3	Table 5	Technical	This requirement prevents piping corrosion in saltwater or brackish cooling water service.	Add to first row "Pipe": For saltwater or brackish cooling water, super duplex stainless steel piping (ASTM A790/A790M UNS S32750 and UNS S32760) shall be used.	Not accepted; already covered by NOTE.		Shell
7.1.3	Table 5	Technical	prevents piping corrosion in saltwater or brackish cooling water service.	Add to second row "Pipe fitting": For saltwater or brackish cooling water, the material for fittings shall be as per ASTM A815/A815M UNS S32750 or UNS S32760 Classes WP-S, WP-W and WP-X.	Not accepted; already covered by NOTE.		Shell
7.1.3	(new) Table 13	Technical	Materials requirements for piping and tubing in offshore and coastal locations are dependent on service temperature. Type 316L stainless steel is only suitable for service temperatures up to 60 °C. 6 Mo grade is only suitable for service temperatures up to 120 °C. Super duplex is required above that temperature.	Add new Table 13—Minimum Piping and Tubing Materials for Lubricating and Control-oil Systems in Offshore and Coastal Locations	Not accepted; offshore applications are better addressed by overlays, different purchasers have varying preferences.		Shell
7.1.3		Technical	New para: Minimum requirements for piping and tubing materials in offshore and coastal locations shall conform to Table 13. Material requirements for piping and tubing in offshore and coastal locations are dependent on service temperature. 316L is only suitable for service temperatures up to 60 °C. 6Mo grade is suitable for service temperatures up to 120 °C. Super Duplex is suitable for service temperatures above 70 °C.		Not accepted; offshore applications are better addressed by overlays, different purchasers have varying preferences.		Shell
7.1.3	Table 3	Editorial	Assuming previous comment about updating wording in Section 1 (Scope) to clearly exclude DGS systems, delete NOTE 1.	Delete NOTE 1, since DGS are already excluded in the scope section	Accepted.	Zack Zalesky	Chevron
7.1.3	Table 3	Editorial	Assuming previous comment about updating wording in Section 1 (Scope) to clearly exclude GT fuel systems, delete NOTE 3.	Delete NOTE 3, since GT fuel systems are already excluded in the scope section	Accepted.	Zack Zalesky	Chevron
7.1.30		Technical	Soft-seated check valves can be damaged by dirt, especially during the flushing process, and consequently are prone to leakage. Wafer-type check valve bolting can expand and cause leakage during a fire.	7.1.30 Replace with: Soft-seated-type and wafer-type check valves shall not be used.	Accepted in principle; non-metallic seats shall not be used, will add as 7.1.30.1; bolting is better addressed by overlays.		Shell

7.1.30		Editorial	This paragraph contains two shall statements. Split this subparagraph into two subparagraphs to remain compliant with the API style guide. Renummer the paragraphs accordingly.	Consider adopting the updated wording below as 7.1.30 and 7.1.31 NEW. Paragraphs currently numbered 7.1.31 through 7.1.41 will need to be renumbered accordingly. "7.1.30 Wafer check valves in sizes DN 50 (NPS 2) and larger shall be in accordance with API 594. 7.1.31 Wafer check valves shall not be used in hazardous process fluid (gas or liquid) or steam service.	Accepted.	Zack Zalesky	Chevron
7.1.31	NOTE	Editorial	The contents of this note are provided earlier in the standard (see 6.7.11). Consider deleting the this note.	Delete the note.	Accepted.	Zack Zalesky	Chevron
7.1.32		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
7.1.33		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
7.1.34.3		Technical	New para	Cadmium or zinc plated studs, bolts and nuts shall not be used.	Accepted in principle; will add para: Cadmium plated studs, bolts and nuts shall not be used.		Motiva Overlay
7.1.35		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
7.1.36		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
7.1.37		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
7.1.39		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
7.1.39 & 40		Technical	Suggest adding API-603 as an option for stainless steel Gate, Globe, Check valves as these have been commonly specified and used for small bore 150# & 300# service. Improved availability while more than meeting the functional requirements of lower pressure systems.		Accepted.		Cobey
7.1.40		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
7.1.42		Technical	new para	Piping supports for valves shall be on the piping adjacent to the valve not on the valve body. This is to allow removal of the valve while maintaining proper support of the piping.	Accepted in principle; Piping supports for valves shall allow removal of the valve while maintaining support of the piping.		KBR Overlay
7.1.42		Technical	Different vents might need to go to different areas. An oil mist vent might need to be routed to a different location than a non-hazardous vent. Therefore, a common manifold cannot be used.	Add 7.1.42: Vents to safe locations shall not be manifolded.	Not accepted; too restrictive.		Shell
7.1.43		Technical	new para	Valve handles shall be arranged to avoid pinch points during valve operation.	Not accepted; already addressed by 6.6.12 & 13.		KBR Overlay

7.1.43		Technical	During a fire, zinc burns and the excessive heat generated causes embrittlement of stainless steel which subsequently leads to premature failure and possible feeding of lube oil as fuel to the fire. Cadmium is a known carcinogen so frequent contact with this material is to be prevented.	Add 7.1.43: Cadmium or zinc plated studs, bolts and nuts shall not be used.	Not accepted; already addressed in para 7.1.34.3		Shell
7.1.44		Technical	facilitates removal and ease of maintenance. It also provides more robust connections than threaded connections.	Add 7.1.44: Valves larger than DN 50 (NPS 2) shall be flanged.	Accepted in principle; will add "valves 2 in. and larger shall be flanged.		Shell
7.1.45		Technical	Flanged control valve connections are preferred but these could be difficult to obtain at small sizes. Threaded control valve connections may be prompt to leakage, which is a safety hazard for steam, process gas and oil applications, but can be accepted for these non-hazardous applications.	Add 7.1.45: Control valves up to DN 25 (NPS 1) in air or inert gas service shall be flanged or threaded.	Not adopted; technically unpersuasive		Shell
7.1.46		Technical	Flanged connections are more robust than threaded connections which can leak when subjected to stress and knocks. Flanged valves are non-standard for sizes 1 in. or below.	Add 7.1.46: Control valves greater than DN 25 (NPS 1) shall be flanged.	Not adopted; technically unpersuasive		Shell
7.1.5	NOTE	Technical	Consider deleting this note. The note as written would imply that bimetallic welding is acceptable provided that one of the components being welded is not a pipe. We should not be encouraging bimetallic welds.	Delete the note or if a general provision for bimetallic welds of "non-pipe components" is necessary (with customer approval), add a new paragraph to address this need.	Accepted.	Zack Zalesky	Chevron
7.1.6.1.1		Technical	New Para: allows the operator to drain oil from equipment for maintenance. Valved drains provide easier maintenance than plugged drains.	Drain lines shall terminate with an isolation valve.	Not accepted; already addressed in 7.1.8 e		Shell
7.1.6.1.2		Technical	New para: accommodates flushing and cleaning.	Headers shall terminate with blind flanges.	Not accepted; refer to 7.1.8 e; purchaser & supplier must agreed on overall piping concept.		Shell
7.1.6.2	NOTE	Editorial	Would this note be better suited under 7.1.6.1?	Consider moving this note to 7.1.6.1.	Accepted.	Zack Zalesky	Chevron
7.1.7	NOTE	Editorial	Reword this paragraph to make the bulleted requirement more clear. Currently it has an incognito "if specified."	Consider adopting the updated wording below: "7.1.7 [bullet] The extend of the piping system at the equipment train shall be defined by the purchaser, when soleplates are specified."	Accepted.	Zack Zalesky	Chevron
7.1.8		Editorial	This paragraph as written contains two "shall" statements. To comply with the API style guide the paragraph will need to be broken up and the subsection renumbered.	Consider adopting the updated wording below as 7.1.8 and 7.1.9 NEW. Paragraphs currently numbered 7.1.9 through 7.1.41 will need to be renumbered accordingly. The entries in the list 7.1.8a) through 7.1.8 i) will be moved to 7.1.9. "7.1.8 The design of piping systems, including internal reservoir piping, shall be subject to agreement between the vendor and the purchaser. 7.1.9 he design of piping systems, including internal reservoir piping, shall achieve the following: [...]"	Accepted.	Zack Zalesky	Chevron

7.1.8 d)	NOTE	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the updated wording below: "d) To ensure that the function of standby pumps is not impaired due to vapor/air accumulation at a high point in the suction piping, air pockets are to be eliminated through the use of valved vents, continuous recirculation, or nonaccumulating piping arrangements;"	Accepted.	Zack Zalesky	Chevron
7.1.8 g)		Editorial	Consider rewording this entry in the list to delete the nested shall.	Consider adopting the updated wording below: "g) vents and drains subject to toxic or flammable fluids, and not connected to a manifolded system, are to be valved and blinded or plugged;"	Accepted.	Zack Zalesky	Chevron
7.1.8 h)		Editorial	Consider rewording this entry in the list to delete the nested shall.	Consider adopting the updated wording below: "h) vents and drains that are connected to pressurized systems are equipped with protection from reverse flow;"	Accepted.	Zack Zalesky	Chevron
7.1.8 i)		Editorial	Consider rewording this entry in the list to delete the nested shall.	Consider adopting the updated wording below: "i) piping is to be free of pockets, traps, or nondrainable low points that may collect debris and prevent thorough flushing and drainage."	Accepted.	Zack Zalesky	Chevron
7.1.8 j)		Technical	New para	Lubricating, control, and seal oil systems shall be designed with breakout spools at equipment connections to facilitate installation of flushing jumpers and screens or filters.	Not accepted; detailed discussion between purchaser and vendor is needed; see 7.2.6		Motiva Overlay
7.1.8 j)		Technical	New para: prevents possible leaks in the piping system due to wear and tear from fatigue stress.	j) hoses and bellows shall not be used.	Accepted in principle; 7.1.8.j will add para: use of hoses or bellows require purchaser approval.		Shell
7.1.9		Technical	accommodates flushing and cleaning.	Add: Blind flanges shall be installed at dead ends of all piping.	Not accepted; refer to 7.1.8 e; purchaser & supplier must agreed on overall piping concept.		Shell
7.2.1		Technical	This replacement provides better needed drainage by increasing the line size, thereby reducing the resistance to flow, and a larger drain line size is more robust.	In list section g), replace "have a minimum size of DN 40 (NPS 1 ½)" with: " . . have lube-oil and control-oil drain lines with a line size of DN 50 (NPS 2) or greater."	Not accepted; appropriate for a purchaser's overlay.		Shell
7.2.1		Editorial	And/or is no longer permitted by the API style guide. Convert and/or to "and".	Replace "and/or" with "and" to comply with the API style guide.	Accepted.	Zack Zalesky	Chevron
7.2.1 a)	NOTE 1	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of NOTE 1 into 7.2.1 a). Also, the reference to "Annex I" will need to be updated to "Annex H" due to renumbering in the annex.	Consider adopting updated wording shown below: "7.2.1. a) run no more than half full if flowing at normal drain operating conditions, at maximum flow conditions (see Annex H);"	Accepted.	Zack Zalesky	Chevron
7.2.1 c)	NOTE 3	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider splitting the content of list entry "c)" into two list entries and integrating the content of NOTE 3.	Consider adopting updated wording shown below as 7.2.1 c) and 7.2.1 d) NEW. List entries 7.2.1 d) through 7.2.1 g) will need to be renumbered accordingly. "7.2.1 c) be self-venting. 7.2.1 d) be equipped with breather(s)/vent(s) at appropriate locations in the system to maintain atmospheric pressure in the oil lines, avoid vacuum or backpressure, and promote free oil flow;"	Accepted.	Zack Zalesky	Chevron

7.2.1 f)	NOTE	Editorial	Should this note actually be "NOTE 4"? Does the NOTE numbering carry through the list or restart for each entry in the list?	Check the style guide to determine whether this note should be NOTE 4.	Accepted.	Zack Zalesky	Chevron
7.2.1 g)		Technical	Increase minimum drain line size.	The minimum size for all drain lines shall be DN 50 (NPS 2) without a reduction in size from the machine drain connection to the return header, unless otherwise approved by the Owner's Engineer.	Not accepted; appropriate for a purchaser's overlay.		Motiva Overlay
7.2.1 g)		Editorial	To better align with the intent of the API style guide for lists, consider rephrasing 7.2.1 g) to eliminate the nested "shall."	Consider adopting the updated wording below and creating an additional list entry [7.2.1 h)]. "7.2.1 g) all drain lines other than inner seal-oil drain lines have a minimum size of DN 40 (NPS 1 1/2); 7.2.1 h) inner seal-oil drain lines shall have a minimum size of DN 25 (NPS 1)."	Accepted.	Zack Zalesky	Chevron
7.2.1 l)		Technical	New para	The hydraulic design of drain lines for gears with pitch line velocities greater than 150 m/s (29,528 ft/min) should be reviewed by the vendor for the following: a) To prevent the backing up of drained oil into other components of the machine train; b) To ensure gear sump does not hold a level.	Not accepted; 90/10 rule.		Motiva Overlay
7.2.1. h)		Technical	New para	Branch connections (pressure and oil return) shall be flanged at the header and at the machine. Branch pipe shall not be directly welded to run pipe.	Not accepted; appropriate for a purchaser's overlay.		Motiva Overlay
7.2.5		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
7.2.6		Technical	Additional requirement	Bypass connections for flushing shall be provided by furnishing a blind flanged connection adjacent to each oil supply and drain connection on the equipment train. This includes, but is not limited to, supply and drains at bearing housings, trip circuits, servomotors, turning gear, etc. Breakout spools and temporary jumpover piping for flushing purposes shall be furnished by the Supplier.	Not accepted; appropriate for a purchaser's overlay.		KBR Overlay
7.2.7		Technical	New para	Hand-operated flow control valves in the bearing oil supply lines are not permitted. Properly sized restriction orifices shall be used to obtain the oil distribution required.	Not accepted; appropriate for a purchaser's overlay.		KBR Overlay
7.2.7		Technical	New para	Main oil supply header shall have DN 20 (NPS 3/4) flanged and blinded connections in the top of the pipe just downstream of the lube oil filter and downstream of each pressure regulating valve.	Not accepted; appropriate for a purchaser's overlay.		Motiva Overlay
7.2.7		Technical	This requirement permits isolation and mechanical work on the driven equipment while oil for cool down is continued to the steam turbine.	Add 7.2.7: For steam turbines supplied without turning gears for cooling down, a car-sealed open isolation valve shall be provided in the oil supply header.	Not accepted; appropriate for a purchaser's overlay.		Shell
7.2.8		Technical	New para	Dead end stubs are not permitted downstream of the filters. All piping downstream of filters shall be butt welded.	Not accepted; comment withdrawn		Motiva Overlay

7.3.11		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
7.3.13		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
7.3.14		Technical	new para	Tubing used for all process connections shall be Inconel A825 tubing material with 316L fittings. Use of 316L tubing material requires Owner's Engineer approval.	Not accepted; appropriate for a purchaser's overlay.		Motiva Overlay
7.3.3		Technical	Tube failures can be prevented by specifying the material for the environment.	Add: Instrument tubing and fittings in coastal and offshore environments shall conform to IOGP S-716:2021, Table 2.	Not accepted; appropriate for a purchaser's overlay.		Shell
7.3.4		Technical	Revise	Initial connections for pressure instruments and test points shall comprise a welded branch connection and DN 20 (NPS 3/4) welded by threaded isolation valve to the same standard as the system to which it is connected.	Not accepted; appropriate for a purchaser's overlay.		Motiva Overlay
7.3.4		Technical	Initial connections for pressure instruments and test points shall comprise a branch and DN 20 (NPS ¾) isolation valve to the same standard as the system to which it is connected.	Does this clause mean that by default, all the Instrument branching shall be of 3/4" along with a 3/4" isolation valve and then the Instrument tubing of 1/2" shall be used. Would this clause be Unless otherwise specified or incase for smaller Lube systems, if Customer accepts 1/2" branching for the instruments, will it be acceptable.	Not accepted; 1/2 in. tubing accepted downstream of the valve.	MATHEW C.T.	ENPRO INDUSTRIES PVT. LTD (INDIA)
7.3.4.1		Technical	Substitute	Each pressure device shall have its own process connection (not shared) in accordance with 7.3.4.3.	Not accepted; appropriate for a purchaser's overlay.		Motiva Overlay
7.3.4.3		Technical	Substitute	Separate pressure gauges shall be provided with separate taps for each pressure transmitter that is used for alarm or start permissive. Shutdown transmitters that require multiple transmitters can have one pressure gauge with its own tap	Accepted in principle; will add as a bulleted option.		Motiva Overlay
7.3.4.4		Editorial	The subparagraph has two "shall" statements as currently written and would need to be broken up to comply with the API style guide. Alternatively, deleting "and shall be stainless steel" would solve this problem as stainless steel is already required per table 3-6.	Delete "and shall be stainless steel", since this requirement is already covered in Tables 3-6.	Accepted.	Zack Zalesky	Chevron
7.3.4.5		Technical	New para	Pulsation dampeners shall be installed at all pressure sensing lines where positive displacement pumps are used. This is not applicable to the drain side of systems.	Not accepted; appropriate for a purchaser's overlay.		Motiva Overlay
7.3.6		Editorial	Since this is already a bulleted requirement, consider deleting "if specified by the purchaser."	Delete "if specified by the purchaser."	Accepted.	Zack Zalesky	Chevron
7.3.7		Technical	Replace 2nd sentence; This requirement prevents corrosion and subsequent contamination of the oil system.	Instrument valves shall be stainless steel ASTM A312 Type 304 or 316 with stainless steel stems.	Accepted in principle; removing CS material option.		Shell
7.4.3		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
7.6.1		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

7.6.10		Editorial	The use of "unless otherwise approved by the purchaser" is unnecessary consider deleting it to comply with the current guidance from the SOME. The statement as written already provides a default. The "unless otherwise approved by the purchaser" text does not provide any additional clarity or value.	Delete the "unless otherwise approved by the purchaser".	Accepted.	Zack Zalesky	Chevron
7.6.11		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
7.6.15		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
7.6.6		Editorial	Remove "Unless otherwise approved by Purchaser,".	Intercoolers and aftercoolers shall be constructed and arranged to allow removal of tube bundles without dismantling piping or compressor components.	Accepted.		Chevron overlay
7.6.6		Editorial	The use of "unless otherwise approved by the purchaser" is unnecessary consider deleting it to comply with the current guidance from the SOME. The statement as written already provides a default. The "unless otherwise approved by the purchaser" text does not provide any additional clarity or value.	Delete the "unless otherwise approved by the purchaser".	Accepted.	Zack Zalesky	Chevron
7.6.9		Editorial	Restructure to remove the incognito "if specified" statement.	Consider adopting the updated wording below: "7.6.9 [bullet] Air-cooled heat exchangers shall be in accordance with API 661."	Accepted.	Zack Zalesky	Chevron
8.1.11		Technical	New para	Pressure measurement instruments in pulsating service shall be provided with pulsation dampeners.	Not accepted; need quantifiable criteria.		Motiva Overlay
8.1.11.1		Technical	New para; ensures that the air is filtered to the level required by the control valve, preventing possible failure of the valve due to contamination.	Pneumatic-control valves shall have a filter.	Not accepted; air filter is typically built into the regulator.		Shell
8.1.11.2		Technical	New para; reduces the instrument air pressure to the level required by the control valve for trouble-free operation.	Pneumatic-control valves shall have a pressure-reducing valve.	Not accepted; the regulator is typically part of the actuator.		Shell
8.1.11.3		Technical	New para; This requirement indicates the reduced pressure for the correct function of the pressure-reducing valve.	Pneumatic-control valves shall have a pressure gauge.	Not accepted; the regulator is typically part of the device.		Shell
8.1.11.4		Technical	New para; specifies a metal valve body because it is a more robust construction than a plastic valve body.	The filter body and regulator valve body (or combined filter-regulator body) shall be of metal construction.	Not accepted; clarified instead; changed 8.3.12.4 to permit aluminum instrument air regulator and filter bodies.		Shell
8.1.2		Editorial	This paragraph as written currently contains two "shall" statements and will need to be broken up or rephrased to comply with the API style guide.	Consider adopting the updated wording shown below: "8.1.2 Instrumentation and installation shall conform to the purchaser's specifications and the requirements of this standard."	Accepted.	Zack Zalesky	Chevron
8.1.3		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron

8.1.3.2		Editorial	This subparagraph as currently written contains two "shall" statements and will need to be broken up to comply with the API style guide.	Consider adopting the updated wording shown below as 8.1.3.2 and 8.1.3.3 NEW: "8.1.3.2 [bullet] Controls, instrumentation, and equipment shall be suitable for the area classification (class, group, and division or zone) specified by the purchaser. 8.1.3.3 [bullet] Controls, instrumentation, and equipment shall meet the requirements of the applicable parts of NFPA 70, Articles 500, 501, 502, 504, and 505 (IEC 60079) or alternate electrical codes, as well as any local codes specified and furnished on request by the purchaser.	Accepted.	Zack Zalesky	Chevron
8.1.4		Technical	Add material requirement; This requirement provides the needed corrosion resistance for reduced maintenance.	The instrument and control terminal box material shall be Type 316 stainless steel.	Not accepted; addressed by overlays.		Shell
8.1.4		Technical	Add sentence; This requirement maintains the ingress protection rating by preventing ingress of moisture that can occur with top entry design.	Instrument and control terminal boxes shall be of bottom entry design.	Accepted in principle; will add bulleted para; Instrument and control terminal boxes shall be of bottom entry design.		Shell
8.1.5		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.1.9		Technical	Revise	Unless otherwise specified, all wetted parts of all instruments shall be made of 316L stainless steel.	Not accepted; addressed by overlays.		Motiva Overlay
8.1.9		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
8.2.1.1	NOTE 2	Editorial	Although the content of NOTE 2 is indeed accurate, it is tutorial in nature. Based on the current guidance from the SOME, consider deleting this note.	Delete NOTE 2.	Accepted.	Zack Zalesky	Chevron
8.2.1.1 / 8.2.1.2	DS Pg 14 Line 33/34	Technical		Valving, transfer valves will be supplied, but bridging links (jumpers), switches, are not supplied for testing the equipment in operation.	Accepted in principle; reworded and deleted NOTES.		Elliott
8.2.1.2		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.2.1.3.1		Technical	New para; Isolation valves permit online maintenance of shutdown sensing devices.	Shutdown sensing devices shall have isolation valves.	Not accepted; already addressed in 8.2.1.2		Shell
8.2.1.3.2		Technical	New para; prevents tampering with the device isolation valves, inadvertently causing a machine shutdown.	Isolation valves for shutdown sensing devices shall be car sealed in the fully open position.	Not accepted; already addressed in 8.2.1.3		Shell
8.2.1.4		Technical	Replace; This replacement permits separate control of each lube-oil pump motor for operation and maintenance. Locked in the "off" position is required for safety during maintenance.	Hand-off-auto (HOA) starting switches that have a facility to be locked in the "off" position shall be provided for pump motors.	Not accepted; addressed in 8.2.1.5		Shell
8.2.1.4		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

8.2.1.5	NOTE	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the updated wording shown below as 8.2.1.5 and deleting the note. "8.2.1.5 A separate electrical disconnect switch with a lockable off position shall be provided at a remote location, such as the motor control center, and should be used only for pump maintenance or during the time the equipment is shut down."	Accepted.	Zack Zalesky	Chevron
8.2.2	Table 9	Technical	Add	For the condition, "Atmospheric lube-oil rundown tank, low level alarm/high level permissive", Permissives shall be indicated on the startup HMI graphic and not included in the alarm list.	Not accepted; end user preference for handling permissives vs alarms.		Motiva Overlay
8.2.2.3		Technical	New requirement	For compressors equipped with seal-oil systems in sour gas service (defined as those with >0.1 mol% H2S), motor operated valves (MOV), air operated valves (AOV), or equivalent shall be provided to remotely isolate the compressor from the process in the event of a loss of seal oil or any other seal-oil system trip.	Accepted in principle; will add NOTE.		Chevron overlay
8.2.2.3.1		Technical	new requirement	The motor operated valve (MOV), air operated valve (AOV), or equivalent shall be configured so that it can be operated remotely from a safe location or the control room.	Accepted in principle; will add NOTE.		Chevron overlay
8.2.2.6		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
8.2.2.6.10		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
8.2.2.6.12		Technical	new para	Except for differential pressure devices, alarm or shutdown devices shall not be combined with indicating devices (e.g., a dial gauge with a single contact).	Accepted in principle; will add as a bulleted option 7.3.4.3.1.		Chevron overlay
8.2.2.6.4		Editorial	This subparagraph as currently written contains two "shall" statements and will need to be broken up or rephrased to comply with the API style guide.	Consider adopting the updating wording shown below to align with the API style guide. "8.2.2.6.4 If any component of the alarm system malfunctions, an alarm shall be initiated that is distinguishable from alarms resulting from deviation from normal operating parameters of the equipment."	Accepted.	Zack Zalesky	Chevron
8.2.3.1		Editorial	This subparagraph is rather lengthy and a little confusing. Consider breaking it into three separate subparagraphs (i.e., 8.2.3.1.1, 8.2.3.1.2, and 8.2.3.1.3). Consider updating the wording in the list under arrangement 3 to eliminate nested "shall" statements and convert these to a statement of fact.	Break the subparagraph into three separate subparagraphs to reduce confusion and remove the nested "shall" statements in the list under arrangement 3.	Accepted.	Zack Zalesky	Chevron
8.2.4.1		Technical	Add default requirement	First out annunciation shall be provided for shutdown functions only.	Accepted.		Motiva Overlay
8.2.4.1		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

8.2.4.3		Editorial	To comply with the API style guide, consider either deleting the nested "shall" statements in the list in 8.2.4.3, or converting the list to additional subparagraphs [e.g., 8.2.4.3 a) would become 8.2.4.3.1].	Convert the list in 8.2.4.3 to multiple subparagraphs to comply with the API style guide (reference API style guide Annex G, Table G.1).	Accepted.	Zack Zalesky	Chevron
8.2.4.4		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.2.4.5		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.2.4.7		Editorial	As currently written, this subparagraph has two "shall" statements. Rewrite the requirement to avoid the use of two "shall" statements in compliance with the API style guide, or break into separate requirements.	Consider adopting updated wording shown below: 8.2.4.7 If a plant DCS or local panel HMI system is provided, it shall generate an event list (alarms and shutdowns/trips) with time stamped entries.	Accepted.	Zack Zalesky	Chevron
8.3.1.1	NOTE	Editorial	To comply with the SOME's directive to reduce the numbered of technical notes, consider deleting this note as it is tutorial in nature or integrating the content of the note into the requirement.	Delete the note.	Accepted.	Zack Zalesky	Chevron
8.3.1.11		Technical	New para; provides identification of individual instruments and switches for operation and maintenance.	Nameplates of instruments and switches shall be fixed on or adjacent to the device.	Not accepted; addressed by overlays.		
8.3.1.11		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.3.1.11.2		Technical	New para; provides identification of instruments and switches for operation and maintenance.	Nameplates of instruments and switches shall show the process identification and service.	Not accepted. Already addressed by 8.3.1.11		
8.3.1.11.3		Technical	New para; provides identification of plugs and sockets for operation and maintenance.	Plugs and sockets used for instrument connections shall be labelled with the corresponding instrument identification.	Not accepted. Already addressed by 8.3.1.11		
8.3.1.13		Technical	Revise from 300 to 316L ss.	The sensing elements of pressure devices shall be of 316L stainless steel.	Not accepted; previously addressed.		Motiva Overlay
8.3.1.16		Technical	New para; reduces site installation work.	Instruments shall be pre-wired and terminated in a local terminal box.	Not accepted; see 8.3.1.5		
8.3.1.17		Technical	Add new para; It is essential to have local and remote monitoring in the control room for this critical equipment to prevent plant shutdowns.	Local display of status and monitoring signals shall be repeated and transferred from the local control panel to the ICSS.	Not accepted; more appropriate for overlay.		
8.3.1.2		Technical	add requirement	Bleed and drain valves shall be terminated with solid series 304 or 316 stainless steel, round, long shank, threaded plugs furnished in accordance with ASME B16.11.	Not accepted; invalid para reference.		Chevron overlay
8.3.1.3		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.3.1.6		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
8.3.1.7		Technical	Not accepted; option available in para 6.2.18	Add: Separate junction boxes shall be provided for the following types of systems: a) intrinsically safe analogue and digital; b) non-intrinsically safe analogue and digital; c) instrument power.	Not accepted; these requirements better addressed by overlay.		
8.3.1.7		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

8.3.1.8		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
8.3.10.1		Technical	Add relevant normative reference for class F insulation.	Add "in accordance with IEC 60085" after "class F insulation"	Not accepted; additional codes are better specified by an overlay.		
8.3.10.3		Editorial	This subparagraph contains two "thoughts" but a single "shall" statement. Break the subparagraph into two separate paragraphs to stay consistent with the intent of the style guide.	Consider adopting the updated wording shown below as 8.3.10.3 and 8.3.10.4 NEW. Subparagraphs currently numbered 8.3.10.4 through 8.3.10.5 "8.3.10.3 Single-coil solenoid valves shall not be used in continuously energized services that can affect normal operations. 8.3.10.4 Single-coil solenoid valves may be used in intermittent instrument services."	Accepted.	Zack Zalesky	Chevron
8.3.10.5		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.3.10.6		Technical	New para	Solenoid valves in trip circuits shall be provided with manual reset devices.	Not accepted; additional codes are better specified by an overlay.		KBR Overlay
8.3.11.10	NOTE	Editorial	Since this is already a bulleted requirement, consider deleting "if specified." To comply with the SOME's directive to reduce the number of technical notes, consider deleting the note as it is tutorial in nature.	Delete "if specified" and the note.	Accepted.	Zack Zalesky	Chevron
8.3.11.11		Technical	New para	Relief valves shall have car sealed isolation block valves for maintenance.	Not accepted; option available in para 6.2.18		Motiva Overlay
8.3.11.11		Technical	Add new para to permit safe maintenance.	PSVs and PLVs shall have isolation valves in the supply and outlet line.	Not accepted; option available in para 6.2.18		
8.3.11.11.2		Technical	Add new para; to prevent tampering.	PSV supply and outlet line isolation valves shall be car sealed in the fully open position.	Not accepted; option available in para 6.2.18		
8.3.11.12		Technical	Add new para; Installing the PSV in the correct location and position is necessary for correct valve operation to prevent any debris from accumulating in the valve.	PSVs shall be installed in an upright vertical position above the highest oil level in the oil reservoir.	Not accepted; see 8.3.11.3		
8.3.11.8		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.3.12.10		Technical	new para	Sufficient isolation shall exist on control valves and control valve bypasses so that a control valve can be repaired during system operation, in cases where manual Operator control via field intervention by an Operator is possible to maintain the safe operation of the system. For systems where manual control via a bypass cannot safely maintain the safe operation of the system, the vendor shall notify the purchaser and develop a mutually agreeable solution.	Not accepted; block & bypass intent is to enable operate manually without control valve.		Chevron overlay
8.3.12.10		Technical	Add new para; When valve replacement becomes necessary, this requirement allows uninterrupted operation of the lube-oil system.	Control valves shall be supplied with isolation, bleed and bypass valves.	Not accepted; block & bypass intent is to enable operate manually without control valve.		
8.3.12.10.2		Technical	Globe valves provide better control than other valve types.	Add new para: Bypass valves shall be of globe type as per Annex C figures.	Accepted;added 8.3.12.10		Shell

8.3.12.11		Technical	new para	For complex seal systems that use multiple control valves, a process simulation shall be considered to ensure stable operating parameters can be maintained. The simulation shall include transient conditions such as startup, normal shutdown, emergency shutdown, and sealing fluid pump swap.	Not accepted; see 6.2.24		Chevron overlay
8.3.12.11		Technical	provide an independent self-contained control system for greater reliability, which is necessary for equipment in critical service.	Add new para: The control of oil system pressure or level shall be via self-regulating instrumentation.	Accepted in principle; modified 8.3.12.1 to prohibit use of ASD for oil pressure or flow control.		Shell
8.3.12.2.f)		Technical	New para	Control valves may be swaged down from the line size. All control valves shall be flanged, DN 25 (1 in) size minimum. They shall be provided with isolating valves, bypass valves, and DN 20 (3/4 in) bleed valves.	Not accepted; valve sizing is independent of installed line size.		Motiva Overlay
8.3.12.6	d)	Technical	new requirement	d) The A- and B-Valves of seal-oil systems shall be fail closed (FC) design.	Accepted in principle; used different text.		Chevron overlay
8.3.12.6		Editorial	The use of "unless otherwise specified on the schematics" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified on the schematics".	Accepted.	Zack Zalesky	Chevron
8.3.12.6		Technical	Self contained regulators do not have a controllable fail state	Revise to state only control valves and add clause that regulators have no designated fail state or clarify specific failure of regulator. For example, loss of spring or stem.	Not accepted; regulators may be designed for fail state.		Sundyne
8.3.12.7.1		Technical	New para	Direct-acting pressure control valves shall be applied for lube oil systems.	Not accepted; better for overlay.		Motiva Overlay
8.3.12.8.2		Technical	Substitute	Direct-acting control valves shall have an external sensing line with a flow control valve utilizing an internal needle valve/check valve arrangement to control valve instability during transient operation.	Accepted in principle; added new para 8.3.12.2.1 describing flow control with needle valve.		Motiva Overlay
8.3.12.8.2.1		Technical	New para	The sensing point shall be as close as possible to the valve itself.	Not accepted; sensing line downstream of filters is preferred for several reasons.		Motiva Overlay
8.3.12.8.2.2		Technical	New para	Sensing lines shall slope continuously from the sensing point to the valve and shall have vents as required to permit complete filling of the lines with liquid.	Not accepted; covered in 7.3.5		Motiva Overlay
8.3.12.8.2.3		Technical	New para	Tubing used for sensing lines shall be a minimum size of 12.7 mm (1/2 in).	Not accepted; tube size defined in Tables, minimum sensing line size is sized by application..		Motiva Overlay
8.3.12.9		Technical	An additional pressure limiting valve is not included unless explicitly stated within the proposal.		Noted.		Lube Power
8.3.2.8		Editorial	As currently written, this subparagraph has two "shall" statements. Rewrite the requirement to avoid the use of two "shall" statements in compliance with the API style guide, or break into separate requirements. Additionally, since this is already a bulleted requirement, consider deleting "if specified or approved."	Consider adopting updated wording shown below as 8.3.2.8 and 8.3.2.8.1 and 8.3.2.8.2. "8.3.2.8 [bullet] Multi-point instruments may be used. 8.3.2.8.1 Alarms and shutdowns shall be connected to separate instruments. 8.3.2.8.2 Separately adjustable alarm or shutdown contacts (switches) shall be provided."	Accepted.	Zack Zalesky	Chevron

8.3.2.9		Editorial	As currently written, this subparagraph has two "shall" statements. Rewrite the requirement to avoid the use of two "shall" statements in compliance with the API style guide, or break into separate requirements. To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the updated wording shown below as 8.3.2.9 and 8.3.2.10 NEW. "8.3.2.9 Alarm switches and shutdown switches shall be arranged to permit testing of the control circuit without interfering with normal equipment operation. 8.3.2.10 When possible, the actuating element shall be arranged to permit testing without removal."	Accepted.	Zack Zalesky	Chevron
8.3.3.1		Technical	Revise	Smart transmitters with an integral indicator shall be used (i.e., no gauges to be used). Instruments with integral indicator shall be located where they are easily readable.	Accepted; added indicating transmitters as a default.		Motiva Overlay
8.3.3.1		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified" and rewrite the 8.3.3.1 as follows: "8.3.3.1 Transmitters shall be supplied."	Accepted in principle; added Indicating transmitters.	Zack Zalesky	Chevron
8.3.3.7	NOTE 2	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider deleting NOTE 2 as it is covered under 8.3.2.9.	Delete NOTE 2.	Accepted.	Zack Zalesky	Chevron
8.3.4.2		Technical	Revise	Temperature-sensing elements shall not be located in oil-flow sight glasses.	Not accepted; technical reasoning not provided.		Motiva Overlay
8.3.5.4		Technical	new requirement	Thermowells shall be analyzed and designed in compliance with ASME PTC 19.3 TW regarding wake-frequency excitation.	Not accepted; 90/10 rule.		Chevron overlay
8.3.7		Technical	Remove displacer operated type level switches.	Direct-acting level instruments may be operated by displacers , floats, capacitance, ultrasonic, guided wave radar, or other means as approved.	Not Accepted; displacers are still used regularly.		Motiva Overlay
8.3.7.1		Technical	Delete "displacers, floats" which are not commonly used.	Direct-acting level instruments may be operated by displacers, floats , capacitance, ultrasonic, guided wave radar, or other means as approved.	Not Accepted; displacers & floats are still used regularly.		
8.3.7.2		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
8.3.7.3		Technical	New para	Level instruments shall be designed to permit isolation for maintenance while the vessel/tank is in service.	Not accepted; provisions already mandated elsewhere in this standard.		Motiva Overlay
8.3.7.3		Technical	Add new para; Tempered borosilicate is resistant to thermal and mechanical shock, which prevents shattering even in the event of physical damage.	Level gauge glass shall be tempered borosilicate.	Not accepted; specific material suggested is too restrictive.		
8.3.8.1.2		Technical	Change 300 to 316L ss	Pressure-sensing elements shall be made of 316L stainless steel.	Not accepted; comment suitable for overlay.		Motiva Overlay
8.3.8.1.2	NOTE	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider deleting this note since it is tutorial in nature and conveys fairly widely held knowledge.	Delete the note.	Accepted.	Zack Zalesky	Chevron
8.3.8.2		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

8.3.8.6		Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the wording shown below as 8.3.8.6 and deleting the note. "8.3.8.6 Local differential pressure indication shall be provided at the filter, so that the condition of filters can be monitored during changeover."	Accepted.	Zack Zalesky	Chevron
8.3.9.1		Technical		A single flow indicator in the main equipment oil drain line will be provided for the thrust bearing and journal bearing on the thrust end of the machine. A single flow indicator will be provided on each end of the compressor for the lube oil and the seal oil when a combined lube/seal oil system is provided.	Accepted in principle; re-worded the sentence for better clarity.		Elliott
8.3.9.3		Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the wording shown below as 8.3.9.3 and deleting the note. "8.3.9.3 [bullet] To detect excessive oil leakage into the coupling guard, flow indicators shall be installed in the drain lines of totally enclosed, dry coupling guards."	Accepted.	Zack Zalesky	Chevron
8.3.9.4		Technical	Add g); requirement provides a good visual indication of flow.	g) have positive mechanical flow indication (e.g. paddle wheel, rotating assembly or equivalent designs).	Not accepted; would restrict drainage.		
8.3.9.4		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
8.4.1		Editorial	As written this paragraph has two "shall" statements. This paragraph will need to be split up or rewritten to comply with the API style guide.	Consider adopting the updated wording shown below as 8.4.1 and 8.4.2 NEW. The paragraphs currently numbered 8.4.2 through 8.4.20 will need to be renumbered. "8.4.1 Motors, electrical instrumentation, components, and electrical installations shall be suitable for the area classification (class, group, and division or zone) specified by the purchaser. 8.4.2 Motors, electrical instrumentation, components, and electrical installations shall meet the requirements of the applicable parts of IEC 60079 or NFPA 70, Articles 500, 501, 502, 504, and 505 as well as any local codes specified and furnished on request by the purchaser.	Accepted.	Zack Zalesky	Chevron
8.4.11		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Not accepted; this use highlights the purchaser's responsibility to specify whether a location is classified as tropical.	Zack Zalesky	Chevron
8.4.11		Editorial	To comply with the API style guide, consider either deleting the nested "shall" statements in the list in 8.4.11, or converting the list to additional subparagraphs [e.g., 8.4.11 a) would become 8.4.11.1].	Convert the list in 8.4.11 to two subparagraphs to comply with the API style guide (reference API style guide Annex G, Table G.1).	Accepted.	Zack Zalesky	Chevron

8.4.13		Editorial	As written this paragraph has two "shall" statements. This paragraph will need to be split up or rewritten to comply with the API style guide. To comply with the API style guide (see Table G.1 in Annex G of the API style guide), consider either deleting the nested "shall" statements in the list in 8.4.13, or converting the list to additional subparagraphs [e.g., 8.4.13 a) would become 8.4.13.1].	Consider adopting the updated wording shown below as 8.4.13 and 8.4.14 NEW. The paragraphs currently numbered 8.4.14 through 8.4.20 will need to be renumbered. "8.4.13 [bullet] Control, instrumentation, and power wiring, which is not within a fully enclosed panel or other enclosure, shall be in the form of armored cable or shall be run in metal conduit as specified. 8.4.14 Control, instrumentation, and power wiring shall meet the following: 8.4.14.1 cables shall be supported on cable trays; 8.4.14.2 conduits and cable trays shall be supported to prevent damage from pedestrian traffic; 8.4.14.3 conduit shall be supported to avoid damage caused by vibration; 8.4.14.4 conduit shall be isolated and shielded to prevent interference between different services; 8.4.14.5 conduits may terminate (in the case of the leads to temperature elements, shall terminate) with a length of flexible metal conduit, long enough to facilitate maintenance without removal of the conduit; 8.4.14.6 in applications where conduit temperatures are above 60 °C (140 °F), the flexible conduit shall be 19 mm (3/4 in.) bronze hose with four-wall-interlocking construction and joints with packed-on heatproof couplings shall be used.	Accepted.	Zack Zalesky	Chevron
8.4.2		Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the updated wording shown below as 8.4.2 and deleting the note. "8.4.2 [bullet] The characteristics of electrical power supplies for motors, heaters, starting and supervisory controls, and instrumentation shall be specified (see the Site and Utility Data Sheet in Annex A.1).	Accepted.	Zack Zalesky	Chevron
8.4.20		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.4.21		Technical	New para	Unless otherwise specified, Purchaser shall provide the local starting switch(es) for electric motors.	Not accepted; already covered in 8.2.1.4		KBR Overlay
8.4.5		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.4.7.1		Technical	assist with operation and maintenance by identifying polarity and ground connections.	Add new para: Terminal strips shall have block identification markers to indicate polarity and ground connections.	Not accepted; labeling already required for terminal strips.		Shell
8.4.7.2		Technical	assist with operation and maintenance by identifying wiring at terminal blocks.	Add new para: Wiring at terminal blocks shall be tagged with permanent sleeve-type tags.	Not accepted; labeling already required for wiring.		Shell

8.5.1		Editorial	Since this is already a bulleted requirement, consider deleting "if specified." To comply with the SOME's directive to reduce the number of technical notes, consider deleting the note as it is tutorial in nature.	Delete "if specified" and the note.	Accepted.	Zack Zalesky	Chevron
8.5.1.1		Technical	New para	If specified, a local gauge board or panel may be used for central mounting of all on-console/skid instrumentation and hand switches. Mounting of instruments and hand switches may also be near to the tap location or device being controlled. NOTE: Examples would be a pressure transmitter mounted on a stand next to the tap location or a hand-off-auto switch located on a stand next to the motor or heater it controls.	Not accepted; suitable for overlay.		Motiva Overlay
8.5.1.2		Technical	New para	Where local mounting of instruments and switches is used per 8.5.1.1, a central junction box shall be used to terminate all on-console/skid wiring allowing for a central marshalling point for customer connection.	Not accepted; suitable for overlay.		Motiva Overlay
8.5.13		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.5.14		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.5.17		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
8.5.19		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.5.20	NOTE	Editorial	While a true statement, this note is tutorial in nature and doesn't provide additional clarification or further guidance. Consider deleting this note.	Delete the note.	Accepted.	Zack Zalesky	Chevron
8.5.21		Technical	provide protection for wiring against accidental damage.	Revise sentence: Internal control panel wiring shall be run in plastic wire-way or wire ducting.	Accepted in principle; changed PVC to non-metallic.		Shell
8.5.26		Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement.	Consider adopting the updating wording below as 8.5.26 and deleting the note. "8.5.26 Except for components that incorporate suitable noise immunity, shielding of the devices in the panel shall be provided for protection from 5 watts radiofrequency interference at 1 m (3 ft) using commercial frequency bandwidths."	Accepted.	Zack Zalesky	Chevron
8.5.27		Editorial	As currently written, this paragraph does not have a "shall" statement and is therefore not enforceable as currently written. If this is indeed a requirement, convert "should" to "shall" .	Consider adopting the updated wording below, which transforms the existing paragraph into an enforceable requirement. "8.5.27 Cable and conduit entry location(s) to the panel shall be mutually agreed upon between the purchaser and the manufacturer."	Accepted.	Zack Zalesky	Chevron
8.5.28		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

8.5.4		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.5.7	NOTE	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider deleting the note as it is tutorial in nature. If the content of the note is essential and not readily available in other publications, consider integrating the content of the note into the requirement.	Delete the note.	Accepted.	Zack Zalesky	Chevron
8.5.8		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.5.9		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME.	Delete the "unless otherwise specified".	Accepted.	Zack Zalesky	Chevron
8.5.9.1		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.5.9.2		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
8.5.9.3		Technical	new para	Enclosures in offshore topsides applications and marine environments, including onshore coastal applications that can experience salt spray or corrosion from a salt-laden marine layer, shall be fabricated from 316 stainless steel. Dual-rated 316/316L or 316L is not permitted due to the susceptibility to pitting corrosion.	Not accepted; suitable for overlay.		Chevron overlay
8.6.1		Technical	Two connections from each grounding bar ensure proper grounding even if one connection fails.	Add new para: Grounding bar ends shall have a grounding termination point.	Not accepted; only one connection avoids possible ground loop.		Shell
8.6.2		Technical	Electrical equipment must be grounded to prevent injury from electrical shocks to personnel.	Add new para: Grounding terminals shall be provided with M10 (1/2 in.) brass studs screwed into carbon steel bosses fillet welded to the equipment/structure.	Not accepted; suitable for overlay.		Shell
8.6.3		Technical	Vibration-resistant washers and nuts are required to secure grounding cables and to prevent them from becoming loose due to vibration from adjacent machinery resulting in loss of ground continuity.	Add new para: Grounding studs shall be supplied with Type 316 stainless steel vibration-resistant washers and nuts.	Not accepted; suitable for overlay.		Shell
9.1.1		Editorial	The only call out for 9.1.1 on the data sheet is as a title for the "Shop Inspection" section of pg. 15. Instead of making this a bulleted requirement, could we instead convert this to a Sub Section - i.e., "9.1.1 Shop Inspection"?	Convert from a bulleted requirement to a title for a subsection (9.1.1 Shop Inspection).	Accepted in Principle; deleted bullet.	Zack Zalesky	Chevron
9.1.2		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
9.1.5		Technical	Data sheet does not have a selection option for "observed". Current options are "required" and "witnessed". Is an additional column needed?	Consider adding an additional column to the data sheet for "observed" inspections to meet the requirement of 9.1.5.	Accepted, TF will add either "drop-down" or additional column to data sheets to facilitate selection of observed testing.	Zack Zalesky	Chevron
9.1.5	NOTE	Editorial	While a true statement, this note is tutorial in nature and doesn't provide additional clarification or further guidance. Consider deleting this note.	Delete the note.	Accepted.	Zack Zalesky	Chevron
9.2.1.3		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron

9.2.1.5		Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of the note into the requirement. Rephrase item "b" in the list to comply with the API style guide's restrictions on the use of "and/or".	Consider adopting the updating wording below as 9.2.1.5 and deleting the note. "9.2.1.5 In addition to the requirements of the governing piping, pressure vessel, welding code or standard, and governing material specification, the purchaser shall identify the following: a) parts that are to be subjected to surface and subsurface examination; b) the type of examination required, such as magnetic particle, liquid penetrant, radiographic, ultrasonic examination, or a combination of these methods."	Accepted.	Zack Zalesky	Chevron
9.2.2.1.2		Technical	Delete reference to "iron" since use of cast iron is no longer permitted (see 6.2.14).	Delete "iron" from the clause.	Not accepted; Submerged pump casings may be made of cast iron (6.7.6).	Zack Zalesky	Chevron
9.2.2.2.2	Table 11	Editorial	Since "shall" statements are not permitted in tables or figures in the API style guide, consider updating the verbiage in footnote "a" to remove the "shall" statement.	Consider adopting updating below for footnote "a" on Table 11. "a) Refer to EN ISO 17636-1 and 2:2013, Class A for guidance on the acceptance criteria for the maximum area of a single exposure."	Accepted.	Zack Zalesky	Chevron
9.2.2.3.1		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
9.2.3.2		Technical	Additional requirement	The Purchaser may inspect for cleanliness the equipment and all piping and appurtenances before heads are welded to vessels, openings in vessels or exchangers are closed or piping is finally assembled.	Not accepted; suitable for overlay.		KBR Overlay
9.2.3.2		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
9.2.3.3		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
9.3.1.4		Technical	Is the clause necessary (i.e., a call out to perform the specified testing)? Seems redundant. Consider deleting.	Delete the clause.	Accepted.	Zack Zalesky	Chevron
9.3.1.5		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
9.3.1.6		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
9.3.2		Technical	A hydrodynamic pressure test will be conducted.		No accepted; no suggested text or explanation offered.		Lube Power
9.3.2.1.3	NOTE 1	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider deleting NOTE 1 as it is tutorial in nature. The definition of the nil-ductility transition temperature is available in other publications. If it is believed to be important to capture the definition in this document, consider moving the definition to the "definitions" section and deleting this note.	Delete NOTE 1. If it is believed to be important to capture the definition of nil-ductility transition temperature in this document, consider adding it to the "definitions" section.	Accepted in principle; will delete para and NOTE per SP2026.	Zack Zalesky	Chevron
9.3.2.1.3	NOTE 2	Editorial	The content of NOTE 2 may fit better under 9.3.2.1.1.	Consider moving NOTE 2 to 9.3.2.1.1.	Accepted.	Zack Zalesky	Chevron

9.3.2.2		Technical		Each component and piping will be hydrostatically tested individually at 1.5 times of the maximum allowable pressure. Complete assembled unit will not be hydrostatically tested, but leakage check under operating pressure will be performed during running test at shop.	No accepted; existing text provides for "prior agreement".		Misuzu Industrial Corp (Kobe)
9.3.2.2		Technical	Oil should be used for hydrostatic testing to prevent contamination with other liquids that would require thorough cleaning and verification of cleanliness prior to the oil console functional test. This ensures the pressure integrity of the fabrication, and leak-free pipework and leak-free assembled oil consoles.	Replace first sentence with: The assembled and piped oil console or oil console subassemblies, inclusive of instrument tubing and fittings, shall be hydrostatically tested with compatible oil as per 9.3.2.1.	Accepted in principle; re-worded 9.3.2.2		Shell
9.3.2.2		Technical	The assembled piping system needs to be tested to ensure its integrity.	Delete second sentence.	Not accepted; text provides alternative "by prior agreement"		Shell
9.3.2.2	NOTE	Editorial	Delete this note. It is also listed under 9.2.1.4. and does not need to be repeated.	Delete the note as it also appears under 9.2.1.4.	Accepted.	Zack Zalesky	Chevron
9.3.2.3.3	Data Sheets	Technical	Current: The data sheets shall list actual hydrostatic test pressures.	We think the real intent is to list either the actual test pressure on the test certificate or the minimum test pressure on the datasheet. Insisting on the actual test pressure on the datasheet creates an additional round of revision, document submittal, & approval.	Agreed in principle; changed data sheet pressure to "minimum"	Alex S.	Elliott
9.3.2.4		Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider rephrasing this requirement to integrate the content of NOTE 1 under 9.3.2.5.	Consider adopting the updated wording shown below as 9.3.2.4 and deleting NOTE 1 under 9.3.2.5. "9.3.2.4 To reduce the potential for chloride stress corrosion cracking, the chloride content of liquids used to test austenitic stainless steel materials shall not exceed 50 parts per million."	Accepted.	Zack Zalesky	Chevron
9.3.2.5	NOTE 2	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider rephrasing this requirement to integrate the content of NOTE 2. At a minimum, the first sentence of NOTE 2 should be deleted, since it has the potential to create confusion and invite discussion/churn about alternative limits which does not align with the intent of providing the "minimum safe standard."	Consider adopting the updated wording shown below as 9.3.2.5 and deleting NOTE 2. "9.3.2.5 Upon conclusion of the test, all residual liquid removed and components wiped dry to prevent higher concentrations of chlorides from forming."	Not accepted; need better quantifiable criteria to change this paragraph, the text of which was dictated by SOME during review of 614, 6th Ed.	Zack Zalesky	Chevron
9.3.2.6		Technical	Is the reference in this clause to "hydraulic test pressure" correct? Should "hydraulic" be replaced with "hydrostatic"?	Replace "hydraulic" with "hydrostatic".	Accepted.	Zack Zalesky	Chevron
9.3.2.6.2		Technical	ensures the integrity of the fabrication.	Add to section: If leaks or seepage occur, the test shall be repeated with the corrections made to eliminate the observed leaks or seepage.	Not accepted; same criteria is given in existing text.		Shell

9.3.2.6.2		Technical	Update the wording in the clause to include a requirement to maintain the test pressure. Consider adopting similar wording to what was used in API 610 13th ed.	Consider adopting the updated wording shown below. "9.3.2.6.2 The hydrostatic test shall be considered satisfactory if the test pressure is maintained and neither leaks nor seepage through the pressure-containing parts or joints is observed."	Accepted.	Zack Zalesky	Chevron
9.3.2.6.2	NOTE	Editorial	Consider adopting the updated wording from API 610 13th ed in this note.	Consider adopting the updated wording shown below as the note. "NOTE Ambient temperature changes (due to weather, direct sun, etc.) during longer hydrotests can cause temporary increases or decreases in test pressure, which can be considered during test evaluation."	Accepted.	Zack Zalesky	Chevron
9.3.2.6.X		Technical	Given that some users utilize longer duration hydrostatic tests as a standard practice, consider adding an additional bulleted subparagraph for users to specify longer duration hydrostatic tests.	Consider adopting the wording shown below as a new subparagraph. "9.3.2.6.3 [bullet] The hydrostatic test shall be conducted for the duration specified by the user."	Accepted.	Zack Zalesky	Chevron
9.3.3.1		Technical	This requirement assists with witnessing the operational test of the lube-oil console.	Add to section: The operational test procedure shall include a marked-up P&ID that indicates the location of temporary jump overs and of test flow and pressure instruments.	Not accepted; suitable for overlay.		Shell
9.3.3.10	i	Editorial	i) While the system is at maximum operating pressure, the internal side-to-side leakage around the plugs of continuous-flow transfer valves shall be demonstrated to be less than the drainage capability of the inactive filter housings. Leakage shall not exceed the expected or specified rates.	Simplify test as follows: i) While the system is at maximum operating pressure, the internal leakage rate of transfer valves shall be demonstrated to be lower than the drainage capability of the filter housing drains. Leakage shall not exceed the expected or specified rates.	Accepted.		API Technical Query
9.3.3.10		Technical	New para.	k) (New) Pump and driver bearing housing vibration levels shall be recorded during the oil system operational test. Vibration levels shall not exceed API 610, "Centrifugal Pumps For General Refinery Services" criteria for centrifugal pumps or, API 676, "Positive Displacement Pumps - Rotary" criteria for positive displacement pumps.	Accepted in principle.		KBR Overlay
9.3.3.10		Technical	This prevents system overpressure.	Add to list section b): PLVs shall be demonstrated to lift with an accumulation that does not exceed 110 % of the system design pressure.	Not accepted; already addressed in 6.7.20.4		Shell
9.3.3.10		Technical	This verifies that the suction head is sufficient for satisfactory lube-oil pump operation (i.e. sufficient NPSHA and prevention of vortices).	Add new list section: k) The reservoir shall be drained to the low-level alarm point.	Not accepted; appropriate for overlay.		Shell
9.3.3.10		Technical	This ensures that this parameter is measured and recorded under the correct operating conditions necessary for plant operation and maintenance in the field.	Add new list section: l) The filter differential pressure shall be measured and recorded at the minimum oil temperature with the normal system flow and pressure.	Not accepted; appropriate for overlay.		Shell

9.3.3.10		Editorial	To comply with the API style guide (reference API style guide Annex G, Table G.1) and eliminate the "nested" shall statements, as well as the list within a list, convert the list in 9.3.3.10 to additional subparagraphs [e.g., 9.3.3.10 a) would become 9.3.3.10.1].	Convert the list in 9.3.3.10 to multiple subparagraphs (9.3.3.10.1 through 9.3.3.10.10) to comply with the API style guide (reference API style guide Annex G, Table G.1).	Accepted.	Zack Zalesky	Chevron
9.3.3.10 k)		Technical	New para	The purchaser shall specify on the data sheet if shop and/or field verification of the dynamic simulation study is required. For the verification test, the vendor shall include in the test loop a means to control pressure and flow complete with adequate instrumentation to verify proper operation of the oil system during all transient conditions. Typically, high speed data recordings are required to ensure the train trip and pump auto-start setpoints are not triggered during the test.	Not accepted; appropriate for overlay.		Motiva Overlay
9.3.3.10.d		Technical		Accumulator(s) for control oil are mounted on the turbine skid. Without this accumulator, it is difficult to demonstrate governor transient condition during oil system testing.	Not accepted; making the control oil accumulator available during the oil system test is appropriate for an overlay.		Elliott
9.3.3.10.g)		Technical		Functioning of TCV will not be demonstrated at running test.	Not accepted; correct functioning of TCV is already specified.		Misuzu Industrial Corp (Kobe)
9.3.3.11.1		Technical	This requirement refers to a "cleanliness criteria" but specific criteria or governing standard/spec is cited. Define the "cleanliness criteria" in alignment with the appropriate governing standard/spec.	Consider updating the requirement to define a specific "cleanliness criteria" and reference a governing standard/spec (criteria may also include requirements not specifically called out in the standard - e.g., no metallic debris shall be found in the oil and all organic material can be broken up when rubbed between the fingers.)	Not accepted; need more quantifiable criteria definition.	Zack Zalesky	Chevron
9.3.3.11.1		Technical	The cleanliness criteria is not clear. 9.3.3.11.4 states that "the greatest dimension of the particles shall not exceed 0.25 mm (0.010 in.), and the particles shall be randomly distributed on the screen." However, the particle count table from the 5th edition has been removed. In Addition, 9.3.3.11.7 states "the system shall be considered clean if foreign matter, such as scale, rust, metal shavings, and sand, are not visible to the eye and grittiness is not detectable to the touch." However, this looks like it applicable to 9.3.3.11.6 when the inspector visually inspects two to six points. It is not clear if 9.3.3.11.7 applies to the inspection of the screens. Finally, Annex E can be used as a discussion of alternative methods of measuring oil cleanliness, however, the primary method outside of the informative annex is not clear.	Recommendation is to add back the particle count table from the 5th edition or further clarify the acceptance criteria for cleanliness.	Not accepted; cleanliness criteria are given in this section.		Sundyne

9.3.3.11.2		Technical	While this requirement only contains a single "shall" statement. It does appear to contain multiple thoughts. Consider breaking up this subparagraph into multiple subparagraphs to improve clarity. Consider incorporating the content of NOTE 1 and NOTE 2 into the requirement as appropriate to reduce the number of technical notes.	Consider adopting the updated wording shown below for 9.3.3.11.2, 9.3.3.11.3 NEW, 9.3.3.11.4 NEW, and 9.3.3.11.5 NEW and deleting NOTE 1 and NOTE 2 (content from these notes will be incorporated into the subparagraphs). Subsequent subparagraph currently numbered 9.3.3.11.3 through 9.3.3.11.8 will need to be renumbered accordingly. "9.3.3.11.2 Immediately following functional testing at the design flow rate and a temperature of 66 °C to 71 °C (150 °F to 160 °F) or lower, as component design dictates, screens placed at all discharge terminations from the console or the packages and at other strategic points agreed on by the purchaser and the vendor shall be checked for cleanliness. 9.3.3.11.3 One (1)-hour minimum oil circulation intervals shall be used for cleanliness testing for subsequent cleanliness inspection of screens until the system is clean. 9.3.3.11.4 Where possibly, test screens shall be mounted such that the flow entering the screen is in a vertical downward direction to prevent debris from escaping the screen. 9.3.3.11.5 Alternative methods to measure oil system cleanliness as referenced in Annex E may be specified by the purchaser."	Accepted.	Zack Zalesky	Chevron
9.3.3.11.7		Technical	Paragraph 9.3.3.11.7 (no visible particles, no grittiness to the touch), however this requirement appears to be in conflict that 9.3.3.11.4 (greatest particle shall not exceed 0.25mm....). Considering the absence of particle limit table in 6th Ed, which requirement takes greater precedence?	Reinstate a particle limit table (similar to API 614 5th Edition, Annex D, Table D.6). Clarify if ISO 4406 or SAE AS4059E the standard for determining system cleanliness?	Not accepted; cleanliness criteria are given in this section.		Lube Power
9.3.3.12		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
9.3.3.13		Editorial	As written this subparagraph has two "shall" statements. Per the API style guide, this subparagraph will need to be broken into two subparagraphs.	Consider adopting the updated wording shown below for 9.3.3.13, 9.3.3.14 NEW. The subsequent subparagraph currently numbered 9.3.3.14 will need to be renumbered accordingly. "9.3.3.13 If dismantling of the oil system is required to make modifications to improve operation, the operating test shall be repeated. 9.3.3.14 Demonstration of cleanliness shall be conducted only after the final assembly."	Accepted.	Zack Zalesky	Chevron
9.3.3.14		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
9.3.3.15		Technical	New para	9.3.3.15 (New) The vendor shall perform soft foot check and pipe strain check according to API 686 for the oil pump/drivers.	Accepted in principle; modified previous para accordingly.		KBR Overlay

9.3.3.2		Editorial	This requirement as currently written contains two "shall" statements. To comply with the the API style guide, this requirement will either need to be broken into two separate subparagraphs and the subsequent subparagraphs in this subsection renumber accordingly or the requirement rephrased to remove the second shall statement.	Consider adopting the updated wording shown below to remove the second shall statement (in compliance with the API style guide). "9.3.3.2 The oil used during the test shall be as mutually agreed upon and compatible with the system oil (see 6.2.8)."	Accepted.	Zack Zalesky	Chevron
9.3.3.3		Technical	As currently written, this requirement would only result in 4 data points being collected during the two hour test. Consider changing the collection frequency from 30 minutes to 15 minutes.	Change the collection frequency from 30 minutes to 15 minutes so that more data points can be collected during the test giving a better indication of health and performance.	Not accepted; overlay.	Zack Zalesky	Chevron
9.3.3.4		Technical	As currently written, this requirement would only result in 8 data points being collected during the four hour test. Consider changing the collection frequency from 30 minutes to 15 minutes.	Change the collection frequency from 30 minutes to 15 minutes so that more data points can be collected during the test giving a better indication of health and performance.	Not accepted; overlay.	Zack Zalesky	Chevron
9.3.3.9.1		Technical	New para	If steam is not available for the operational tests, turbine drivers shall be tested with compressed air or gas of sufficient capacity and pressure to develop normal system operating conditions.	Not accepted; 90/10 rule.		Motiva Overlay
9.4.11		Editorial	As written this paragraph has two "shall" statements. Per the API style guide, this paragraph will need to be broken into two paragraphs and the subsequent paragraphs in this subsection renumbered accordingly.	Consider adopting the updated wording shown below for 9.4.11 and 9.4.12 NEW. The subsequent paragraphs currently numbered 9.4.12 through 9.4.29 will need to be renumbered accordingly. "9.4.11 Lifting points and lifting lugs shall be clearly identified on the equipment package and in the equipment drawings. 9.4.12 The recommended lifting arrangement shall be graphically described in the installation manual."	Accepted.	Zack Zalesky	Chevron
9.4.12	NOTE	Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider deleting this note, since it is tutorial in nature. The content of this note is common knowledge. Unless there is a concern that if the note were to be deleted, that some customers would now think that exceptions are needed for the use of spreader bars.	Delete the note.	Accepted.	Zack Zalesky	Chevron
9.4.15		Editorial	As written this paragraph has two "shall" statements. Per the API style guide, this paragraph will need to be broken into two paragraphs and the subsequent paragraphs in this subsection renumbered accordingly.	Consider adopting the updated wording shown below for 9.4.15 and 9.4.16 NEW. The subsequent paragraphs currently numbered 9.4.16 through 9.4.29 will need to be renumbered accordingly. "9.4.15 The base and all components and piping of a package or an assembled oil system shall be shipped as a single assembly. 9.4.16 The base and all components and piping of a package or an assembled oil system shall be temporarily braced as necessary to prevent damage during shipment.	Accepted.	Zack Zalesky	Chevron

9.4.17		Editorial	The use of "unless otherwise specified" is unnecessary consider deleting it to comply with the current guidance from the SOME. Consider integrating the content of the note into the requirement to comply with the SOME's directive to reduce the number of technical notes.	Consider adopting the updated wording shown below as 9.4.17 and deleting the note (since the content has been incorporated into the requirement). "9.4.17 Pumps and drivers shall be uncoupled except for coupling designs, such as C-flange motors, which require pump/motor disassembly to remove the coupling."	Accepted.	Zack Zalesky	Chevron
9.4.18		Technical	Add text	(Add) In addition to the installed clean elements, 100% spare oil filter elements and gaskets shall be furnished with the oil system so that the filter elements used during the field flushing operations can be replaced with clean elements prior to start-up.	Not accepted; more appropriate for an overlay.		KBR Overlay
9.4.18.1		Technical	New para	Two sets of spare filter elements shall be provided and shipped loose with the system.	Not accepted; more appropriate for an overlay.		Motiva Overlay
9.4.26.2		Technical	As written this subparagraph has two "shall" statements. Per the API style guide, this subparagraph will need to be broken into two subparagraphs. Additionally, to reduce the likelihood of VPI crystal bags and other preservatives that require removal prior to start-up from erroneously not being remove, consider adding a requirement that their location is captured on a drawing.	Consider adopting the updated wording for 9.4.26.2, and 9.4.26.3 NEW as shown below. "9.4.26.2 When applicable, bags shall be installed in wire cages attached to flanged covers. 9.4.26.3 Bag locations shall be indicated in corrosion-resistant tags attached with stainless steel wire and their location captured on a drawing."	Accepted.	Zack Zalesky	Chevron
9.4.28		Technical	Change cardboard to wooden boxes	Components to be shipped separately shall be suitably preserved, sealed in plastic bags, and packaged in wood crates.	Not accepted; more appropriate for an overlay.		Motiva Overlay
9.4.29		Editorial	I believe "are to" and "shall" are considered legally equivalent. However, to avoid potential confusion consider replacing "are to" with "shall."	To avoid potential confusion on the "enforceability" of this requirement, consider replacing "are to" with "shall."	Accepted.	Zack Zalesky	Chevron
9.4.4		Technical	Change "standard paint" to "standard paint for severe environment.	Except for machined surfaces, all exterior surfaces that can corrode during shipment, storage or in service shall be given at least one application of the Manufacturer's standard paint for severe environment.	Not accepted; more appropriate for an overlay.		KBR Overlay
9.4.4		Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider integrating the content of this note into the requirement.	Consider adopting the updated wording shown below as 9.4.4 and deleting note (which has been incorporated into the requirement). "9.4.4 Except for machined surfaces, all exterior surfaces that can corrode during shipment, storage, or in service, including the underside of baseplates, shall be given at least one coat of the manufacturer's standard paint."	Accepted.	Zack Zalesky	Chevron
9.4.4.2		Technical	Since this is already a bulleted requirement, consider deleting "if specified" and rephrasing the requirement to use "shall" rather than "can" since this is a bulleted requirement.	Consider adopting the updated wording shown below as 9.4.4.2. "9.4.4.2 [bullet] The coating or painting system specified by the purchaser shall be used."	Accepted.	Zack Zalesky	Chevron

9.4.4.3		Technical	New para	Carbon steel surfaces (baseplate, supports) shall be abrasive blasted and have a primer, midcoat and finish coat.	Not accepted; more appropriate for an overlay.		KBR Overlay
9.4.4.4		Technical	New Para	For small areas where it is not practical to abrasive blast, power tool clean and apply primer, midcoat and finish coat.	Not accepted; more appropriate for an overlay.		KBR Overlay
9.4.4.5		Technical	New para	Valves shall be power tool cleaned and then given a primer, midcoat and finish coats.	Not accepted; more appropriate for an overlay.		KBR Overlay
9.4.4.6		Technical	New para	Instrumentation, coated bolts and nameplates shall not be painted.	Not accepted; more appropriate for an overlay.		KBR Overlay
9.4.8		Editorial	As written this paragraph has two "shall" statements. Per the API style guide, this paragraph will need to be broken into two paragraphs or a single paragraph and a subparagraph.	Consider adopting the updated wording shown below for 9.4.8 and 9.4.8.1 NEW. The subsequent subparagraphs currently numbered 9.4.8.1 and 9.4.8.2 will need to be renumbered accordingly. "9.4.8 Flanged openings shall be provided with metal closures at least 5 mm (3/16 in.) thick with elastomer gaskets and at least four full-diameter bolts. 9.4.8.1 Each elastomeric gasket shall be equal to the flange diameter."	Accepted.	Zack Zalesky	Chevron
9.5.8		Editorial	Since this is already a bulleted requirement, consider deleting "if specified."	Delete "if specified."	Accepted.	Zack Zalesky	Chevron
All		General	Eliminate "etc." throughout the document to align with the restrictions in the style guide.	Eliminate "etc." throughout the document to align with the restrictions in the style guide.	Accepted.	Zack Zalesky	Chevron
Annex A, Data Sheet		Editorial	Pg. 3 Line #51 - Data Sheet references (6.2.15) in error.	When B31.3 option is chosen we will utilize 6.3.4 to correctly match ASME B31.3 to the correct paragraph.	Noted.		Cobey
Annex C	Figure C.16.1	Technical	Propose alternate Emergency Lube-Oil Pressurized Rundown Tank arrangement	KK Note: insert pdf object here.	Noted.		Motiva Overlay
Annex C	Figure C.8	Technical	The requirement in footnote "a" of Figure C.8 (direct-acting differential PCV shall be reference to sense at the seal) is not contained in the body of the text. Since stand alone requirements in footnotes of Figures and Tables is not permitted, an additional requirement will need to be written to address the content of this footnote (subsection 6.6.4 is probably where this requirement would live).	Add a new requirement to subsection 6.6.4 to address the content of footnote "a" in Figure C.8. Update the wording in footnote "a" to remove the "shall" statement.	Accepted in principle; para. 6.6.4.11 already addresses gas reference connection.	Zack Zalesky	Chevron
Annex C	Figure C.9	Technical	The requirement in footnote "i" of Figure C.9 (direct-acting differential PCV shall be reference to sense at the seal) is not contained in the body of the text. Since stand alone requirements in footnotes of Figures and Tables is not permitted, an additional requirement will need to be written to address the content of this footnote (subsection 6.6.4 is probably where this requirement would live).	Add a new requirement to subsection 6.6.4 to address the content of footnote "i" in Figure C.9. Update the wording in footnote "i" to remove the "shall" statement.	Accepted in principle; para. 6.6.4.11 already addresses gas reference connection.	Zack Zalesky	Chevron
Annex C	Figure C.10	Editorial	Footnotes of Figures and Tables are not permitted to contain requirements ("shall" statements). Update footnotes "a", "b", and "c" in Figure C.10 to remove the "shall" statements.	Remove the "shall" statements in footnotes "a", "b", and "c" in Figure C.10 to comply with the style guide.	Accepted	Zack Zalesky	Chevron

Annex C	Figure C.13	Editorial	Footnotes of Figures and Tables are not permitted to contain requirements ("shall" statements). Update footnote "c" in Figure C.13 to remove the "shall" statement.	Remove the "shall" statement in footnote "c" of Figure C.13 to comply with the style guide.	Accepted.	Zack Zalesky	Chevron
Annex C	Figure C.13	Technical	The update footnote "a" of Figure C.13 to remove the "shall" statement. Availability of flow indicators on drains of totally enclosed coupling guards is a bulleted requirement (8.3.9.3). However, requiring drains (when flow indicators are not supplied) is not covered in the standard. Since stand alone requirements in footnotes of Figures and Tables is not permitted, an additional requirement will need to be written to address the content of this footnote (subsection 6.6.4 is probably where this requirement would live).	Add a new requirement to subsection 6.6.4 to address the content of footnote "a" in Figure C.13. Update the wording in footnote "a" to remove the "shall" statement.	Accepted.	Zack Zalesky	Chevron
Annex C	Figure C.13	Technical	The requirement in footnote "b" of Figure C.13 (oil drain temperature alarms are not required when thrust-bearing metal temperature indication is provided) is not contained in the body of the text. Since stand alone requirements in footnotes of Figures and Tables is not permitted, consider rephrasing footnote "b", since the individual serviced equipment standards (API 610, 613, 617, 541, etc.) set the minimum instrumentation requirements.	Update the wording in footnote "b" to present a potential option, but have the decision governed by the individual equipment standards. Consider the suggested wording below. "b Some users may forgo the use of oil drain high-temperature alarms when the serviced equipment is equipped with thrust-bearing metal temperature detector. Refer to the governing equipment standard for the serviced equipment for further guidance."	Accepted in principle; re-worded.	Zack Zalesky	Chevron
Annex C	Figure C.13	Technical	Footnotes of Figures and Tables are not permitted to contain requirements ("shall" statements). Remove the "shall" statement in footnote "c" of Figure C.13 to comply with the style guide.	Consider adopting the updated wording below for footnote "c" in Figure C.13 to remove the "shall" statement from the footnote in compliance with the API style guide. "c Connections are electrically insulated as appropriate based on the motor design."	Accepted.	Zack Zalesky	Chevron
Annex C	Figure C.15	Technical	Footnotes of Figures and Tables are not permitted to contain requirements ("shall" statements). Remove the "shall" statement in footnote "b" of Figure C.15 to comply with the style guide.	Consider adopting the updated wording below for footnote "b" in Figure C.15 to remove the "shall" statement from the footnote in compliance with the API style guide. "b This tank is located at an elevation such that the static head is less than the equipment lube-oil trip pressure. "	Accepted.	Zack Zalesky	Chevron
Annex C	Figure C.16	Technical	Footnotes of Figures and Tables are not permitted to contain requirements ("shall" statements). Remove the "shall" statement in footnote "b" of Figure C.16 to comply with the style guide.	Consider adopting the updated wording below for footnote "b" in Figure C.16 to remove the "shall" statement from the footnote in compliance with the API style guide. "b This tank is located at an elevation such that the static head is less than the equipment lube-oil trip pressure. "	Accepted.	Zack Zalesky	Chevron

Annex C	Figure C.21	Technical	Footnotes of Figures and Tables are not permitted to contain requirements ("shall" statements). Remove the "shall" statement in footnote "f" of Figure C.21 to comply with the style guide.	Consider adopting the updated wording below for footnote "f" in Figure C.21 to remove the "shall" statement from the footnote in compliance with the API style guide. "f A basket-type screen is used instead of a line strainer for the suction of pumps submerged in the reservoir"	Accepted.	Zack Zalesky	Chevron
Annex C	Figure C.23	Technical	Footnotes of Figures and Tables are not permitted to contain requirements ("shall" statements). Remove the "shall" statement in footnote "b" of Figure C.23 to comply with the style guide.	Consider adopting the updated wording below for footnote "b" in Figure C.23 to remove the "shall" statement from the footnote in compliance with the API style guide. "b A flanged connection is provided for venting the reservoir. For seal-oil reservoirs, this vent is sized to prevent overpressure in the event of a seal failure and the vent routed to a safe location by the purchaser based on dispersion modeling."	Accepted in principle.	Zack Zalesky	Chevron
Annex C	Figure C.23	Technical	Footnotes of Figures and Tables are not permitted to contain requirements ("shall" statements). Remove the "shall" statement in footnote "d" of Figure C.23 to comply with the style guide.	Consider adopting the updated wording below for footnote "d" in Figure C.23 to remove the "shall" statement from the footnote in compliance with the API style guide. "d Purge and vent connections enter the top of the reservoir. No extension tubes or seals are permitted."	Accepted.	Zack Zalesky	Chevron
Annex C	Figure C.23	Technical	The float style level indicator corresponding to footnote "f" is not shown in the figure (it was shown in the equivalent figure in the 5th edition) nor is this requirement captured in the body of the document. The content of this footnote needs to be moved to the body of the document (potentially in either subsection 6.6.1 or 6.6.4). The figure either needs to be updated to contain this feature and the wording in the footnote updated to remove the "shall" to align with the style guide or the footnote removed.	Add the content of footnote "f" to the body of the document (potentially in subsection 6.6.1 or 6.6.4). Since the feature corresponding to footnote "f" is not currently shown in Figure C.23, consider deleting the footnote.	Accepted.	Zack Zalesky	Chevron
Annex C	Figure C.23	Technical	Footnotes of Figures and Tables are not permitted to contain requirements ("shall" statements). Remove the "shall" statement in footnote "k" of Figure C.23 to comply with the style guide.	Consider adopting the updated wording below for footnote "k" in Figure C.23 to remove the "shall" statement from the footnote in compliance with the API style guide. "k When specified, two tapped grounding pads positioned diagonally to each other are provided."	Accepted.	Zack Zalesky	Chevron

Annex C	Figure C.23	Technical	Footnotes of Figures and Tables are not permitted to contain requirements ("shall" statements). Remove the "shall" statement in footnote "l" of Figure C.23 to comply with the style guide and add the missing reference to "l" to the figure.	Consider adopting the updated wording below for footnote "l" in Figure C.23 to remove the "shall" statement from the footnote in compliance with the API style guide. Add the reference to "l" in Figure C.23. "l Individual oil returns are located away from the pump suction and arranged to provide the maximum residence time (see 6.6.2.1)."	Accepted.	Zack Zalesky	Chevron
Annex C	Figure C.30	Editorial	Update the wording in footnote "g" of Figure C.30 to align with current practice - i.e., using AFD rather than VFD.	Consider adopting the updated wording for footnote "g" of Figure C.30 shown below to align with current practices. "g Adjustable speed drives, such as an AFD for a motor-driven blower, can be used for vacuum/capacity control."	Accepted.	Zack Zalesky	Chevron
Annex D	Table D.1	Technical	Add to VDDR	Add: h) (WPS) and supporting PQR p) Heat treatment plan q) Heat treatment logs r) Weld maps	Not accepted; more appropriate for an overlay.		Chevron overlay
Annex D		Editorial	Is the specific usage of "shall" throughout this informative annex acceptable based on the API style guide (see 5.3.6.3 in the API style guide)?	Consider having someone from API review this annex to ensure that the usage of "shall" is consistent with the style guide.	When the bulleted para. 10.1.2 is selected by the purchaser, Annex D is normative.	Zack Zalesky	Chevron
Annex F		Editorial	Delete the row on cast iron since cast iron pressure containing components are not permitted.	Delete the row on cast iron.	Not accepted; para. 6.7.6 permits cast iron submerged pump casings.	Zack Zalesky	Chevron
Annex H	H.9C	Technical	Add Figure H.9C - API 619 Rotary Lobe Blowers	Add Fig provided by 619 TF.	Not accepted; Annex H no longer part of 614.		Everlence
Annex H	Figure H.1 - H.14	Technical	Annex H from the 6th edition should be removed based on guidance from the SOME (respective equipment standards to carry the minimum system configuration drawings) and the included drawings deleted.	Delete Figure H.1 - H.14 to comply with the direction from the SOME. Please ensure that the relevant drawings are routed to the TF chairs for their respective standards. Consider whether or not some form of tracking by the SOME is appropriate (similar to other systemic changes enacted).	Accepted.	Zack Zalesky	Chevron
Annex I	Table I.1	Technical	Use of qualified weld procedures and welders is required for all piping not just oil piping. Consider updating the wording in 7 b).	Delete the word "oil" from 7 b).	Accepted.	Zack Zalesky	Chevron
Annex I	Table I.1	Technical	Consider adding baseplate flatness and elevation to 9).	Consider adding baseplate flatness and elevation to 9).	Accepted.	Zack Zalesky	Chevron
Annex I	Table I.1	Technical	Consider adding pipe strain verification to 14).	Consider adding pipe strain verification to 14).	Not accepted; already addressed by 14 f)	Zack Zalesky	Chevron
Bibliography	23	General	add reference to IOGP S-744.	add reference to IOGP S-744.	Not accepted; S-744 reference would result in circular references.	Mitchell Lowe	Shell

D.1.3		Editorial	As written, this paragraph currently contains two "shall" statements. This paragraph will need to be broken up to comply with the API style guide.	Consider adopting the updated wording shown below as D.1.3 and creating a new paragraph D.1.4. "D.1.3 Each drawing shall have a title block in the lower right-hand corner with the date of certification, identification data specified in D.1.2, revision number, and date and title. D.1.4 Similar information shall be provided on all other documents including subvendor items."	Accepted.	Zack Zalesky	Chevron
D.2.1.2		Editorial	To avoid potential confusion around creating standalone requirements in an informative annex, consider adding a reference to 10.3.1.1.1.	Consider adopting the updated wording shown below. "D.2.1.2 The proposal shall include, as a minimum, the data specified in D.2.2 through D.2.5, and a specific statement that the equipment and all its components and auxiliaries are in strict accordance with this standard as stated in 10.3.1.1.1."	Accepted.	Zack Zalesky	Chevron
D.2.1.3		Editorial	To avoid potential confusion around creating standalone requirements in an informative annex, consider adding a reference to 10.3.1.1.2.	Consider adopting the updated wording shown below. "D.2.1.3 If the equipment or any of its components or auxiliaries are not in strict accordance, the vendor shall include a list that details and explains each deviation. as stated in 10.3.1.1.2."	Accepted.	Zack Zalesky	Chevron
D.2.2.1		Editorial	As written, this paragraph currently contains two "shall" statements. This paragraph will need to be broken up to comply with the API style guide.	Consider adopting the updated wording shown below as D.2.2.1 and D.2.2.2 NEW. The paragraph currently numbered D.2.2.2 will need to be renumbered accordingly. "D.2.2.1 The drawings indicated on the VDDR form in this annex shall be included in the proposal. D.2.2.2 As a minimum, the following shall be included: a) a general arrangement or outline drawing for each machine train or skid-mounted package, showing overall dimensions, maintenance clearance dimensions, overall weights, erection weights, the largest maintenance weight for each item, the direction of rotation for each piece of rotating equipment, and the size and location of major purchaser connections; b) cross-sectional drawings showing the details of the proposed equipment; c) schematics of all auxiliary systems including fuel, lube-oil, control, and electrical systems; d) bills of material; e) sketches that show methods of lifting the assembled machine or machines, packages, and major components and auxiliaries. [This information may be included on the drawings specified in item a) above.]	Accepted.	Zack Zalesky	Chevron

D.2.3.2		Editorial	To comply with the API style guide (see Table G.1 in Annex G of the API style guide), consider deleting the nested "shall" statement in D.2.3.2 h).	Consider adopting the updated wording shown below for D.2.3.2 h) "h) description of any special weather protection and winterization required for start-up, operation, and periods of idleness, under the site conditions specified on the data sheets; this description is to indicate the protection(s) needing to be furnished by the purchaser, as well as those that have been included in the vendor's scope of supply;"	Accepted.	Zack Zalesky	Chevron
D.2.3.3		Editorial	To comply with the API style guide (see Table G.1 in Annex G of the API style guide), consider deleting the nested "shall" statement in D.2.3.2 i).	Consider adopting the updated wording shown below for D.2.3.2 i) "i) complete tabulation of utility requirements, e.g. steam, water, electricity, air, gas, lube oil (including the quantity and supply pressure of the oil required, and the heat load to be removed by the oil), and the nameplate power rating and operating power requirements of auxiliary drivers; approximate data is to be clearly indicated as such;"	Accepted.	Zack Zalesky	Chevron
D.3.1.2		Editorial	As written, this paragraph currently contains two "shall" statements. This paragraph will need to be broken up to comply with the API style guide.	Consider adopting the updated wording shown below as D.3.1.2, D.3.1.3 NEW, and D.3.1.4 NEW. The paragraph currently numbered D.3.1.3 will need to be renumbered accordingly. "D.3.1.2 The purchaser shall review the vendor's data upon receipt. D.3.1.3 However, this review shall not constitute permission to deviate from any requirements in the order unless specifically agreed in writing. D.3.1.4 After the data have been reviewed and accepted, the vendor shall furnish certified copies in the quantities specified."	Accepted.	Zack Zalesky	Chevron
D.3.1.3		Editorial	As written, this paragraph currently contains multiple "shall" statements. This paragraph will need to be broken up to comply with the API style guide.	Consider adopting the updated wording shown below as D.3.1.3, D.3.1.4 NEW, and D.3.1.5 NEW. "D.3.1.3 A complete list of vendor data shall be included with the first issue of major drawings. D.3.1.4 This list shall contain titles, drawing numbers, and a schedule for transmittal of each item listed. D.3.1.5 This list shall cross-reference data with respect to the VDDR form."	Accepted.	Zack Zalesky	Chevron

D.3.2		Editorial	As written, this paragraph currently contains multiple "shall" statements. This paragraph will need to be broken up to comply with the API style guide.	Consider adopting the wording shown below. "D.3.2.1 The drawings and data furnished by the vendor shall contain sufficient information so that together with the manuals specified in D.3.5, the purchaser can properly install, operate, and maintain the equipment covered by the purchase order. D.3.2.2 All contract drawings and data shall be clearly legible (8-point minimum font size even if reduced from a larger size drawing). D.3.2.3 The drawings supplied shall cover the scope of the agreed VDDR form, and satisfy the applicable detailed descriptions in this annex.	Accepted.	Zack Zalesky	Chevron
D.3.4.1		Editorial	As written, this paragraph currently contains multiple "shall" statements. This paragraph will need to be broken up to comply with the API style guide.	Consider adopting the wording shown below. The paragraph currently numbered D.3.4.2 will need to be renumbered accordingly. "D.3.4.1 The vendor shall submit complete parts lists for all equipment and accessories supplied. D.3.4.2 These lists shall include part names, manufacturers' unique part numbers, and materials of construction (identified by applicable international standards). D.3.4.3 Each part shall be completely identified and shown on appropriate cross-sectional, assembly-type cutaway, or exploded-view isometric drawings. D.3.4.4 Interchangeable parts shall be identified as such. D.3.4.5 Parts that have been modified from standard dimensions or finish to satisfy specific performance requirements shall be uniquely identified by part number. D.3.4.6 Standard purchased items shall be identified by the original manufacturer's name and part number."	Accepted.	Zack Zalesky	Chevron
D.3.4.2		Editorial	As written, this paragraph currently contains multiple "shall" statements. This paragraph will need to be broken up to comply with the API style guide.	Consider adopting the wording shown below. "D.3.4.2 The vendor shall indicate on each of these complete parts lists all those parts that are recommended as start-up or maintenance spares, and the recommended stocking quantities of each. D.3.4.3 These shall include spare parts recommendations of subvendors that were not available for inclusion in the vendor's original proposal."	Accepted.	Zack Zalesky	Chevron

D.3.5.1		Editorial	As written, this paragraph currently contains multiple "shall" statements. This paragraph will need to be broken up to comply with the API style guide.	Consider adopting the wording shown below and renumbering the paragraphs currently numbered D.3.5.1.1 and D.3.5.1.2. "D.3.5.1.1 The vendor shall provide sufficient written instructions and all necessary drawings to enable the purchaser to install, operate, and maintain all of the equipment covered by the purchase order. D.3.5.1.2 This information shall be compiled in a manual or manuals with a cover sheet showing the information listed in D.1.2, an index sheet, and a complete list of the enclosed drawings by title and drawing number. D.3.5.1.3 The manual pages and drawings shall be numbered. D.3.5.1.4 The manual or manuals shall be prepared specifically for the equipment covered by the purchase order. "Typical" manuals are unacceptable." "	Accepted.	Zack Zalesky	Chevron
D.3.5.2.1		Editorial	As written, this paragraph currently contains multiple "shall" statements. This paragraph will need to be broken up to comply with the API style guide.	Consider adopting the wording shown below and renumbering subsequent paragraphs accordingly. "D.3.5.2.1 All information required for the proper installation of the equipment shall be compiled in a manual. D.3.5.2.2 This manual shall be issued no later than the time of issue of final certified drawings." "	Accepted.	Zack Zalesky	Chevron
D.3.5.2.5		Editorial	To comply with the SOME's directive to reduce the number of technical notes, consider deleting this note as it is tutorial in nature.	Delete the note.	Accepted.	Zack Zalesky	Chevron
D.3.5.3		Editorial	As written, this paragraph currently contains multiple "shall" statements. This paragraph will need to be broken up to comply with the API style guide.	Consider adopting the updated wording shown below. "D.3.5.3.1 A manual containing all required operating and maintenance instructions shall be supplied at shipment. D.3.5.2 In addition to covering operation at all specified process conditions, this manual shall also contain separate sections covering operation under any specified extreme environmental conditions." "	Accepted in principle.	Zack Zalesky	Chevron
D.3.5.4	Table D.1	Editorial	As written this description of entry "m" in table D.1. Consider breaking this entry into sub entries for improved clarity (similar to what was done for other entries above).	Break up entry "m" similar to what was done for other entries.	Accepted.	Zack Zalesky	Chevron
Data Sheet	P. 3, Line 51	Editorial	Data Sheet references (6.2.15) in error. When B31.3 option is chosen we will utilize 6.3.4 to correctly match ASME B31.3 to the correct paragraph.		Noted.		Cobey
Data Sheets	Data Sheets	General	adjusted the 614 data sheets to be more like the other SOME ones.		Noted.	Travis	
Data Sheets	Data Sheets	Editorial	Piping, Tubing & Valves have wrong para number references to 6.2.14 & 15		Noted.		Cobey

E.2.1		Editorial	Consider deleting the reference to "special-purpose machine." Also, delete the note, since this change was made in the 6th edition of API 614.	Delete the reference to "special-purpose machine" and the note, since dry gas seals are clearly excluded from the standard in the scope section.	Accepted.	Zack Zalesky	Chevron
E.2.2		Editorial	Delete the parantehtical expression at the end of this section. While it is absolutely true, it isn't our job to make sure a user reads the document.	Delete the parantehtical expression at the end of this section.	Accepted.	Zack Zalesky	Chevron
E.2.3		Editorial	Rephrase the first sentence of the first paragraph since this requirement has been in API 614 since at least the 5th edition.	Consider adopting the following wording to replace the first sentence of the E.2.3. "Filters are to be water resistant up to a water content of 5 % at elevated temperatures to further ensure filter element integrity."	Accepted.	Zack Zalesky	Chevron
E.2.3		Editorial	Rephrase the second sentence of the second paragraph since this requirement has been in API 614 since at least the 5th edition.	Consider adopting the wording shown below to replace the second sentence of the second paragraph. "Nonhygroscopic media filters are designed such that, over an extended exposure period to oil contaminated with water, the pressure drop does not exceed twice the clean, new element pressure drop value."	Accepted.	Zack Zalesky	Chevron
E.2.4		Editorial	Consider deleting the reference to "special-purpose machine."	Delete the reference to "special-purpose machine".	Accepted.	Zack Zalesky	Chevron
E.4		Editorial	Consider deleting the reference to "special-purpose machine." Update reference 9.3.3.11 (as needed) depending on document renumbering.	Delete the reference to "special-purpose machine". Update reference 9.3.3.11 (as needed) depending on document renumbering.	Accepted.	Zack Zalesky	Chevron
Fig : C.12	Fig : C.12	Technical	As per Figure C. 12 (Basic Oil supply Module), the Sensing line / Impulse line for the Back Spill Valve is shown/taken after the Filter.	Can the Sensing / impulse line of the Back spill valve taken just at the pump discharge line also be acceptable (as shown in Red), especially incase there is also a Pressure Reduction valve installed in the Lube oil system. This will allow immediate bypassing of pump flow during 2 pump run test and there wont be any rise in Lube oil Header pressure	Best practice is to located that line downstream of the filters.	MATHEW C.T.	ENPRO INDUSTRIE S PVT. LTD (INDIA)
Fig. C.25 / C.26A	Fig. C.25 / C.26A	Technical		Instrument sensing line to safety switches and control valve heads actuated by oil are not D /C.26A vented to the oil reservoir in order to keep the ample maintenance area. All sensing lines are terminated to the device.	Not accepted; already a common industry practice.		Misuzu Industrial Corp (Kobe)
Figure C.19, b and c	6.11.11	Technical	6th Ed requires a connection for charging and checking the pre-charge pressure in the accumulator. Is a permanent type of gas charge arrangement to be applied if there is no specific customer requirement? Fig. C.19 shows a pre-charge kit and constant pressure-regulating system as options, but without definition.	Add clarification t the figure and provide definition for charging station scope to text - temporary or permanent charging station? Samples attached	Not Accepted: many different commercial solutions are available, defining that scope is outside 614.	Ryota Furukawa	furukawa.ryota@eetc.ebara.com
Figure C.19, b and c	6.11.3	Technical	If a direct-contact-type accumulator is specified, a manual precharge valve or a constant pressure-regulating system shall be furnished (see Figure C.19). This requirement is not clearly defined.	Clarify requirement (sample documents are attached).	Not Accepted: many different commercial solutions are available, defining that scope is outside 614.	Ryota Furukawa	furukawa.ryota@eetc.ebara.com

Figure C.19, h		Technical	Drain valve (h) - is this actually a vent valve, not a drain valve?	Re-label as vent/drain.	Not accepted; connection h) is labeled as a drain, position is not suitable to also be a vent.	Ryota Furukawa	furukawa.ryota@eetc.ebara.com
Figure H	Figure H	Editorial	the shut down PAL/PALL device appears here, but is generally located at the machinery oil header, not the console. Add a note clarifying this.		Noted.		Cobey
Figures (page VI, Table of Contents)	H.9C	Technical	Add H.9C Configuration Code for - API 619 Rotary Lobe Blowers	LO-PRSA0-HE-BP1-CS1-F2-A0-PV1-TV1-OT0 (provided by 619 TF)	Not accepted; 614; configuration codes are now located in the respective API standards to which the codes apply, rather than in 614.		Everlence
Section 4 Table 2		Technical	Update a minimum recommended system config to agree with latest API 619 for pressurized bearings. The H.9A & B, and H.10 configs will stay but a new config will need to be added.	Add new API 619 Config. The and the TF should review other TFs to determine if any other additions of changes should be made to the Minimum Recommended System Configurations.	Not accepted; 614; configuration codes are now located in the respective API standards to which the codes apply, rather than in 614.	Chuck Parker	
Section 8.3.11		Technical	End User question about Pump Discharge PLVs not being ASME VIII or API 520/526 PLV may not be "Tight Shutoff" and hence typical ASME PSV testing may not be applicable for them	Possibly elaborate on the use of PLVs in oil systems and identify on-line testing of them versus the bench test of ASME Code valves.	Not accepted; refer to 3.1.36 for elaboration.	Chuck Parker	
Table 1	Table 1	Technical	we think there's confusion related to the omission of PV1/PV1B when PV2/PV2B are chosen. In many cases we think it would be appropriate to have both since they are separate decisions.	A 'special purpose' system should generally havePV1B-PV2B....., but none of the examples from the standard show it this way.	Accepted; change implemented.	Cobey	
Table 5	Table 5	Technical	Table says "Gaskets containing graphite are not permitted". What about spiral-wound gaskets having a ss inner ring?	Please clarify the requirement regarding the use of graphite.	Accepted; clarification added.	Ed Wilcox	Chevron
Table 6	Table 6	Technical	Several of our customers have taken issue with disallowing graphite as many pipe specs will call for spiral wound gaskets with graphite filler, and many valve specs call for graphite bonnet gaskets.	Suggest reversing this. Perhaps a note can be added advising of possible contamination concerns. I don't recall ever having a problem with this during 100's of system flush tests in our shop.	Not accepted; only graphite sheet gaskets are prohibited.	Cobey	
Table 6	Table 6	Technical	doesn't permit graphite in gasket material, but we're getting pushback from some users on this item saying it's impractical since graphite is a common filler in spiral wound gaskets and is frequently found in end user piping specs. Did we capture the intent correctly? Did whoever introduced this requirement intend to eliminate only graphite sheet gaskets?	PTFE would be the best choice, but it's not fire safe.	Accepted; clarification added, see revised footnote in Table 6.		Cobey & Flexitallic
Table 6	Table 6	Editorial	Due to the wording, there's also confusion on whether this requirement only applies to 300# and below vs. 600# and higher.		Accepted; clarified Table 6 section for flange gaskets.		Cobey
Table 8	Table 8	Technical		Tubing in 1-1/2" x 0.134" wall and 2" x 0.188" wall may also be applied.	Not accepted; 90 /10 rule.		Elliott

		Technical	Flange gaskets: The standard allows “non-asbestos” spiral filler. When folks use the term non-asbestos filler they are referring to the old chlorite-graphite/mica-graphite filler. Please note that this filler is no longer in B16.20, its availability is coming to a close, and it also contains graphite. Also, technically all spiral found filler is non-asbestos including graphite... PTFE would be the best choice, but it's not fire safe.		Not accepted; no resolution is suggested.	Kathryn Worden	Flexitallic
		General	PLVs: annual maintenance requirements for Lube Oil Systems where the PLVs must be removed for testing is problematic. Is there specific language to prevent the need for additional over pressure protection for the coolers, filters, piping?		Noted: when specified as a coded valve, removal for annual maintenance is mandated. 614 TF will issue an API survey for industry feedback on the use of over-pressure protection of lube oil systems.	Chad Coleman	Motiva
		Technical	Possible inclusion of ASME B31.12 Piping for Hydrogen Service has been suggested by an End User	From a posted comment found on the internet: "The American Society of Mechanical Engineers (ASME) plans to incorporate relevant hydrogen service requirements from B31.12 into B31.3 and B31.8 (for pipelines) in future editions. The 2026 edition of ASME B31.3 is planned to include a new chapter covering specific hydrogen piping requirements, and ASME B31.12 will be retired once this is complete. " Hence: Maybe a statement identifying hydrogen gas piping services may have additional design, manufacturing and examination/testing requirements.	Noted; 2026 B31.3 will be published before 614, 7th Ed.	Chuck Parker	