



Helideck Committee Report



New Orleans, LA
10 October 2019



HSAC

Helicopter Safety Advisory Conference



Objectives

- Inform the Helideck Committee about recent Industry Developments
- Review Work on HSAC RP 2016-1 Rev 3
- Review Work on HSAC RP 2016-2 Rev 2
- Create Sub-Committee to start development of HSAC RP 2016-5 Helideck Procedures for Helicopter Operators
- Discuss Future Work for Helideck Committee



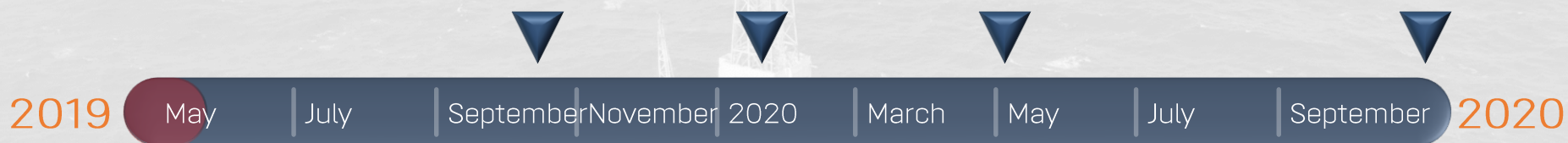
Agenda Item 1

Update on events since
last HSAC Meeting



Timeline – HSAC May 2019

HSAC Meetings



Today

Review Legacy HSAC RPs and recommend removal from HSAC Library based on HSAC RP 2016 Series content

5/23/2019 6/20/2019

Update HSAC RP 2016-1 and -2

6/27/2019 10/10/2019

Develop HSAC RP 2016-5 based on HSAC RP 2019-1

10/24/2019 3/19/2020

Develop Controls for Helideck Owners based on HSAC RP 2019-1 and implement in HSAC RP 2016 Series

3/26/2020 9/10/2020



HSAC RP 2016 Series Promotion

- Presentation during CHC Quality & Safety Summit 2019 in Dallas, TX (2-3 Oct 2019)
 - ▶ Do helideck design and management pose a significant risk to safe helicopter operations?
- HSAC RP 2016-3 Familiarization Training prior to HSAC in New Orleans, LA (8 Oct 2019)
- HeliOffshore Helideck Workgroup input
- Any other opportunities?
 - ▶ If so, what, when, who, where?
 - ▶ Awaiting invite from HAI for presentation at HeliExpo in Anaheim, CA in January 2020



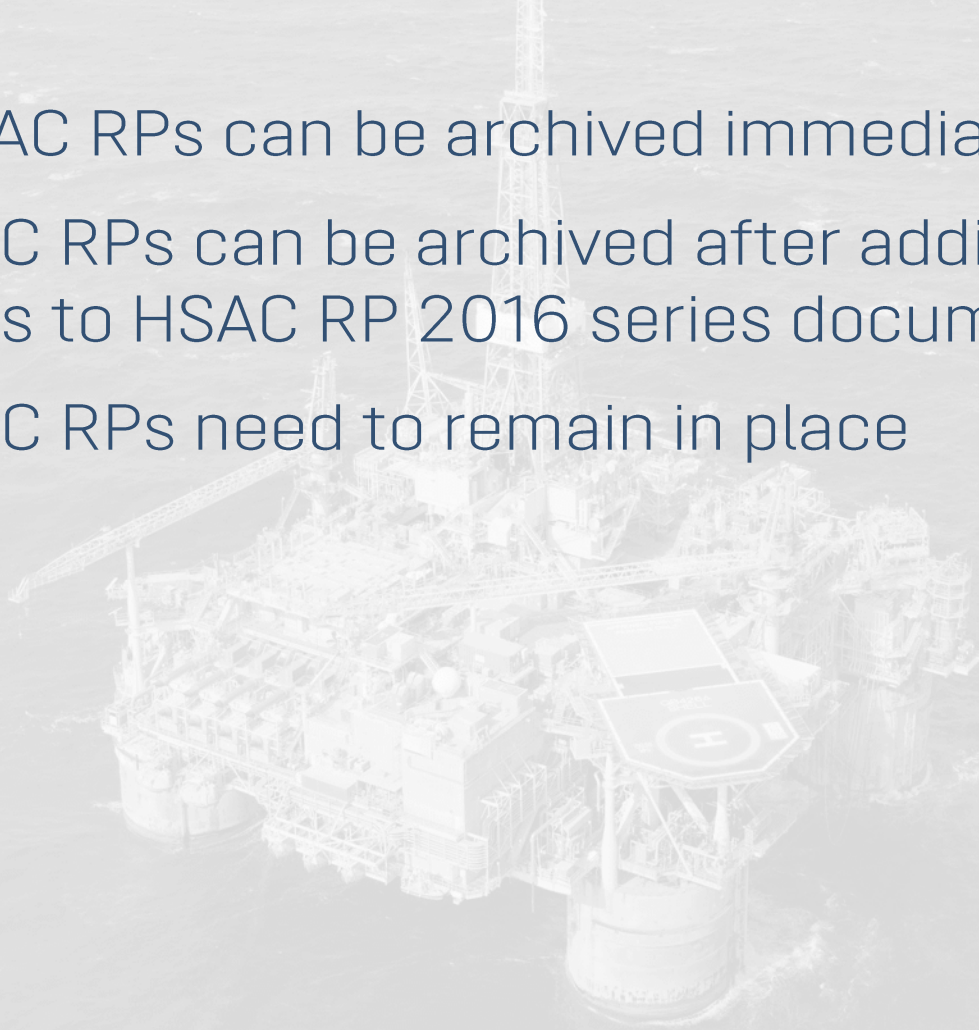
Consolidation of HSAC RPs

- With the publication of the HSAC RP 2016 Series, the content of many older RPs have become obsolete
- A review was completed in order to assure that all content from older RPs was included into the 2016 series
- Our Committee has scrutinized these older RPs and created:
 - ▶ A list of obsolete HSAC RPs. (Forwarded to HSAC Board to have them moved to archive)
 - ▶ A list of updates that need to be embedded in the 2016 series in order to be able to suggest removal



Legacy HSAC RP Review

- 14x HSAC RPs can be archived immediately
- 5x HSAC RPs can be archived after additions/updates to HSAC RP 2016 series documents
- 3x HSAC RPs need to remain in place





HSAC Letter to USCG/BSEE/FAA

- Letter drafted and forwarded to HSAC Board for approval and processing as request to USCG, BSEE and FAA to review HSAC RP 2016-1 and HSAC RP 2016-2 to determine acceptance of these mentioned HSAC RPs as equivalent to helicopter facilities regulations in 46 CFR 108 facilities that have helidecks
- Pending status update from HSAC Board



Agenda Item 2

Industry Workgroup Updates

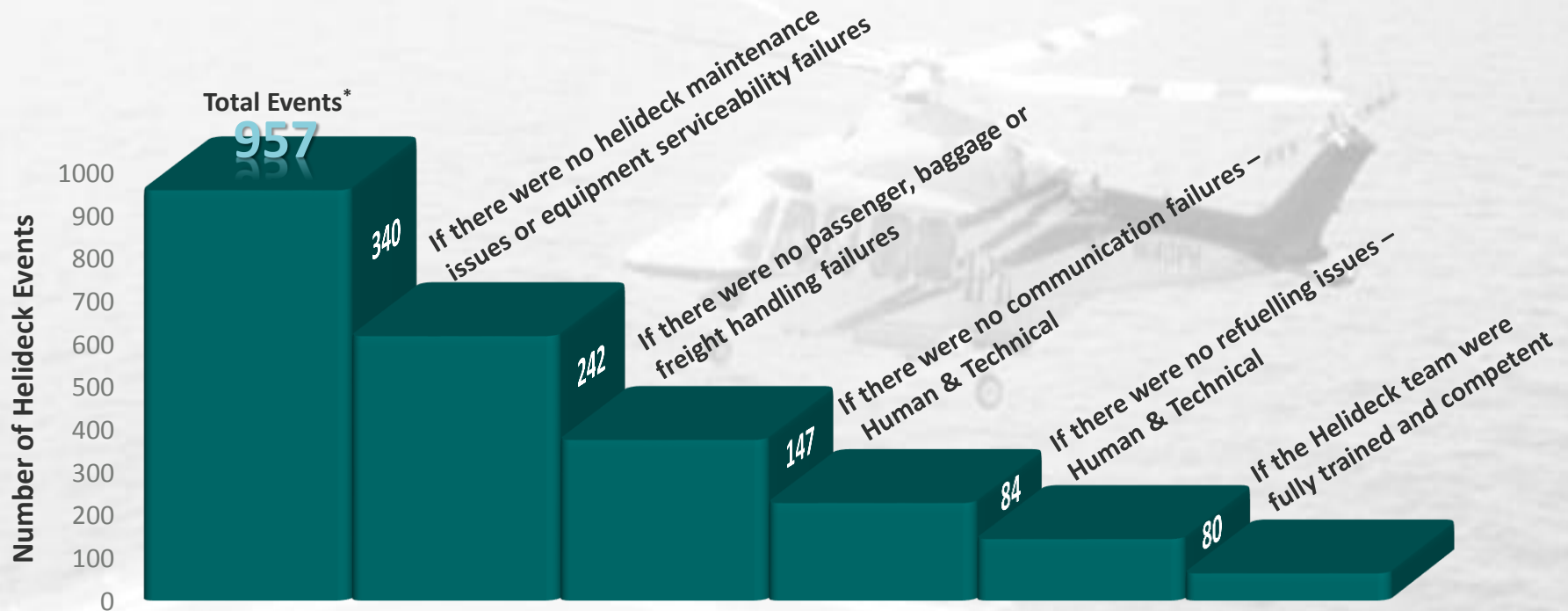


HeliOffshore
Safety Through Collaboration

Industry Updates

HeliOffshore

Safety Staircase – Top 5 Helideck Events



* Events were provided from January 2016 to December 2018 from IOGP, Chevron & CHC Helicopter

Helideck Workgroup Safety Opportunities

- 1 Helideck Equipment Serviceability/Maintenance
- 2 Helicopter Fueling/Fuel Control
- 3 Passenger/Baggage Handling
- 4 Communications (Offshore Facility to Helicopter)
- 5 Helideck Team Training and Competence



ICAO

Industry Updates

ICAO Heliport Design Working Group



ICAO Heliport Design Working Group

- Heliport Design Working Group (HDWG) of the ICAO Aerodrome Design and Operations Panel
 - ▶ Publication of Doc 9261, Heliport Manual, 4th Edition, 2018
 - ▶ No offshore helideck related items anticipated to be tabled until late 2020
- Input HSAC ➡ HeliOffshore ➡ IOGP ➡ ICAO



Industry Updates



International
Association
of Oil & Gas
Producers

IOGP Air Safety Committee



IOGP ASC



- It pleases the IOGP ASC to inform the HSAC Board that the Helideck HSAC RP(s) have been adopted by IOGP/ASC in total.
- Many, many hours of hard work went into the development of these RPs, but it was truly made possible by the determination of a few. The names Bob Williams, Patrick Bosman, and Bill Schroeder rise to the top when it comes to recognition in the completion of this work. Several others deserve thanks as well; as this was truly a collaborative effort.
- HSAC must also be recognized and thanked for the support provided throughout this entire process.
- The Chair of IOGP/ASC passes this good news along and seeks the HSAC Board approval to add the IOGP logo to the documents. IOGP desires to provide the highest level of adoption/endorsement possible.



Agenda Item 3

Review Work Completed for
HSAC RP 2016-1 Revision 3 &
HSAC RP 2016-2 Revision 2



HSAC RP 2016-1/-2 Revisions

➤ Updated the following:

- ▶ Alignment with HSAC RP 2016-3
- ▶ Additions documented during Legacy RP Review
- ▶ Regular revisions

➤ Main topics of change:

- ▶ Updated Disclaimer due to 'Should'-to-'Shall'
- ▶ 'H' and TDPM dimensions to align with ICAO and CAP 437
- ▶ Allow 0.1D offset of TDPM and 'H' for New Builds
- ▶ Allowance for all types of nozzles that are part of a DIFFS system
- ▶ Updated format of HSAC RP 2016 Series Template
- ▶ Updated ALL figures in the RP



HSAC RP 2016-1/-2 Revisions

- Helideck Committee Members will vote on both revisions by email after their final review in the coming weeks
- With committee approval, these documents will be presented to the HSAC Board for voting and subsequent processing



Agenda Item 4

Create sub-committee to start development
of 'HSAC RP 2016-5'



Develop HSAC RP 2016-5

- HSAC RP 2019-1 Offshore Helideck Incident Bowtie - Initial Issue (25Mar2019) provides Blue Background 'TBD' sections for Controls/Barriers that are the responsibility of the Helicopter Operator
- RPs 2016-1 thru -4 mainly focus on Helideck Owners
- A sub-committee with Helicopter Operator members currently in the helideck committee or new members necessary to develop this new RP.
 - ▶ Title: "Helideck Procedures for Helicopter Operators" ?
 - ▶ Weekly 1 hour teleconference meetings?
 - ▶ Volunteers? (Let's verify the list of volunteers from last HSAC Meeting)
 - ▶ Anticipated start date: End of October 2019



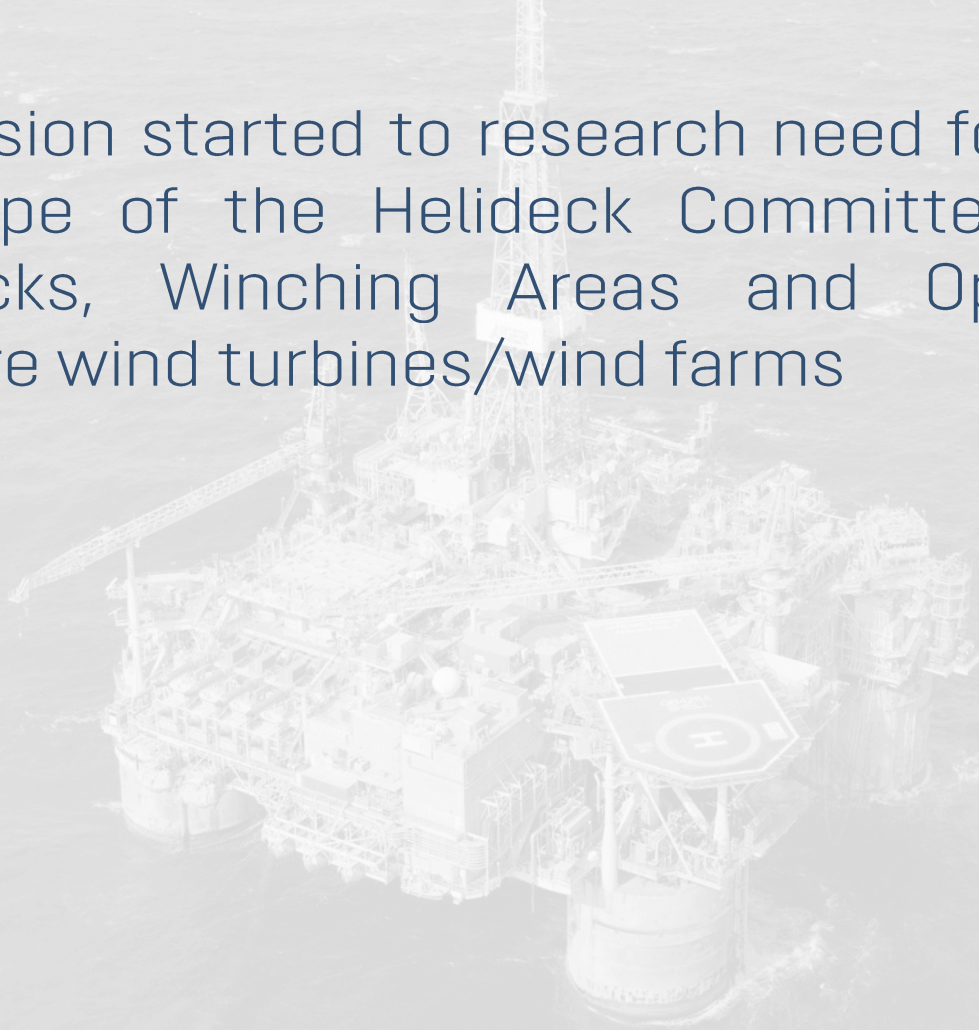
Agenda Item 5

Discuss Future Work



Renewable Energy

- Discussion started to research need for broadening of scope of the Helideck Committee to include Helidecks, Winching Areas and Operations on offshore wind turbines/wind farms





Proposed Timeline

HSAC Meetings



Develop HSAC RP 2016-5 based on HSAC RP 2019-1
10/24/2019 3/19/2020

Develop Controls for Helideck Owners based on HSAC RP 2019-1
3/26/2020 9/10/2020

Update HSAC RP 2016-3 based on -5 and new developed controls
10/1/2020 5/1/2021



Agenda Item 6

Additional HSAC Board Ask



HSAC RP Naming Convention

- Previously requested to consider taking the year out of the HSAC RP titles, which was not endorsed by the HSAC Board
- With IOGP endorsement in mind and perception of outdated documents derived from RP title only, the Helideck Committee requests to reconsider previous decision and change the RP Title naming convention to exclude the year of initial issue



HSAC

Helicopter Safety Advisory Conference



Thank you!



List of Obsolete RPs/Docs

- 1988-1 Passenger Management On and About Heliport Facilities
- 1989-1 Crane – Helicopter Operational Procedures
- 1990-1 Helicopter & Tanker Operation
- 1992-1 Helideck Heliport Operational Hazard Warnings & Procedures
- 1992-2 Perforating Operations, Helideck Heliport Operational Hazard Warnings & Procedures
- 1992-3 H₂S Gas, Helideck Heliport Operational Hazard Warnings & Procedures
- 1992-4 Gas Venting, Helideck Heliport Operational Hazard Warnings & Procedures
- 1992-5 Closed Helidecks Heliports, Helideck Heliport Operational Hazard Warnings & Procedures
- 1993-2 Offshore Helidecks Landing Communications
- 1993-3 Two (2) Helicopter Operation on Offshore Helidecks
- 1994-1 Helicopter Rapid Refueling Procedures (HRR)
- 2004-1 Offshore Helideck Inspections

Helideck Awareness Video for Helideck Teams (IOGP Initiative /w support from HOHWG)



Opportunity 1: Helideck Equipment Serviceability/Maintenance

Proposed way ahead: Development of a Master Minimum Helideck Equipment List (MMHEL)

- Analogue to a MMEL for Aircraft Type Airworthiness
- Now for specific Helideck Type Operational Readiness
 - A Minimum Helideck Equipment list (MHEL) is a list which provides for the safe operation of an offshore helideck, subject to specified conditions, with particular equipment inoperative (which is) prepared by a Helideck Owner in conformity with, or more restrictive than, the Master MHEL (MMHEL) established for the Helideck Type.
 - The MHEL is approved by the Helideck Owner as a minimum and, where applicable, by the Helideck Owner's national aviation authority.

Master Minimum Helideck Equipment List (MMHEL)

- The Master Minimum Helideck Equipment List (MMHEL) is a list established for a particular helideck type by the HeliOffshore Helideck Workgroup (HOHWG), which identifies items which individually may be unserviceable at the commencement of a helideck operations, in addition to Safety Critical Equipment that may not be unserviceable. The MMHEL may be associated with special operating conditions, limitations or procedures.
- The helideck owner shall include in the Helideck Operations Manual (HOM) for each facility a location specific Minimum Helideck Equipment List (MHEL), as a minimum approved by the Helideck Owner and, where applicable, by the Helideck Owner's national aviation authority. This MHEL which will enable the Helicopter Landing Officer (HLO) to determine whether helideck operations may be commenced should any helideck operations related instrument, equipment or systems become inoperative.

Master Minimum Helideck Equipment List (MMHEL)

- A helideck owner may not operate a helideck which does not comply with the approved MHEL, except with the explicit permission of the Appropriate Regulatory Authority, usually the NAA when the MHEL is approved by them, or with the explicit permission of the helideck owner and helicopter operator in case the MHEL is only approved by the helideck owner. Such permission will not be granted to allow the helideck to be used outside conditions set by the corresponding MMHEL.
- In most cases, multiple unserviceabilities of unrelated helideck equipment/systems cannot be addressed by an MMHEL nor, therefore, by an MHEL. The decision as to whether or not to accept for use a helideck which has multiple unserviceabilities, which would individually be allowable by MHEL provisions, ultimately rests with the designated HLO, subject to guidance promulgated on a proactive or ad hoc basis by the helideck owner.
- In any case, if multiple unserviceabilities exist, the MHEL should be consulted for each individual item to check if there are any incompatibilities for each of the associated readiness for use conditions.

Draft Potential Layout of an MMHEL

Weather Equipment						Helideck Type			
Equipment	MHEL-able?	Mitigation	(M) Requirement	(O) Requirement	Repair Category	NUI	Manned	Etc.	...
Windsock	✓	Handheld Anemometer	1) Take down non-functional windsock	1) Helicopter Landing Officer (HLO) to provide wind information from center of the deck to pilot during 5-minute call 2) Issue NOTAM that windsock is unavailable 3) Report unserviceability of windsock and alternate procedures in daily helideck status report to helicopter operators	C	N/A	✓	-	-
Etc.	x	Safety Critical Equipment							

Example:

Repair Category C	This category item must be repaired within 10 consecutive calendar days excluding the day the malfunction was recorded.
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List of Obsolete RPs/Docs

- 2004-2 Jet Fuel Quality Control Procedures
- 2004-6 Helicopter Underwater Escape Training (HUET) and Helicopter Egress
- 2004-7 Helideck Hazards
- 2005-1 Helicopter Tie down Practices

Jet Fuel Quality Control Documents:

- JFQC Inspection Checklist
- JFQC Procedures

Fuel Inspection Checklists:

- A/C Refueling Checklist
- Fixed Facility Checklist
- Transporter Tote Filling Checklist
- Transporter Tote Transfer Checklist