



Helideck Committee



Lafayette, LA
May 15th and 16th, 2019



HSAC

Helicopter Safety Advisory Conference



Objectives

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



Agenda Item 1

Update on events since
last HSAC Meeting



Events Since Last HSAC Meeting

- Election of Troy Batie-Roy as Helideck Committee Secretary

- Passed Helideck Committee vote

In favor: 11 Against: 0 DNV: 1

- Weekly teleconference meetings of Helideck Subcommittee for HSAC RP development temporarily paused. (see next slide)



Events Since Last HSAC Meeting

- **HSAC RP 2016-3 Inspection, Maintenance and Operations of Offshore Helidecks - Initial Issue (25Mar2019)**
 - Passed Helideck Committee vote
 - In favor: 11 Against: 1 DNV: 1
 - Passed HSAC Board vote
 - Passed Unanimously
- **HSAC RP 2019-1 Offshore Helideck Incident Bowtie - Initial Issue (25Mar2019)**
 - Passed Helideck Committee vote
 - In favor: 12 Against: 1 DNV: 0
 - Passed HSAC Board vote
 - Passed Unanimously



Agenda Item 2

**HeliOffshore Helideck Workgroup
and ICAO Workgroup updates**



HeliOffshore
Safety Through Collaboration

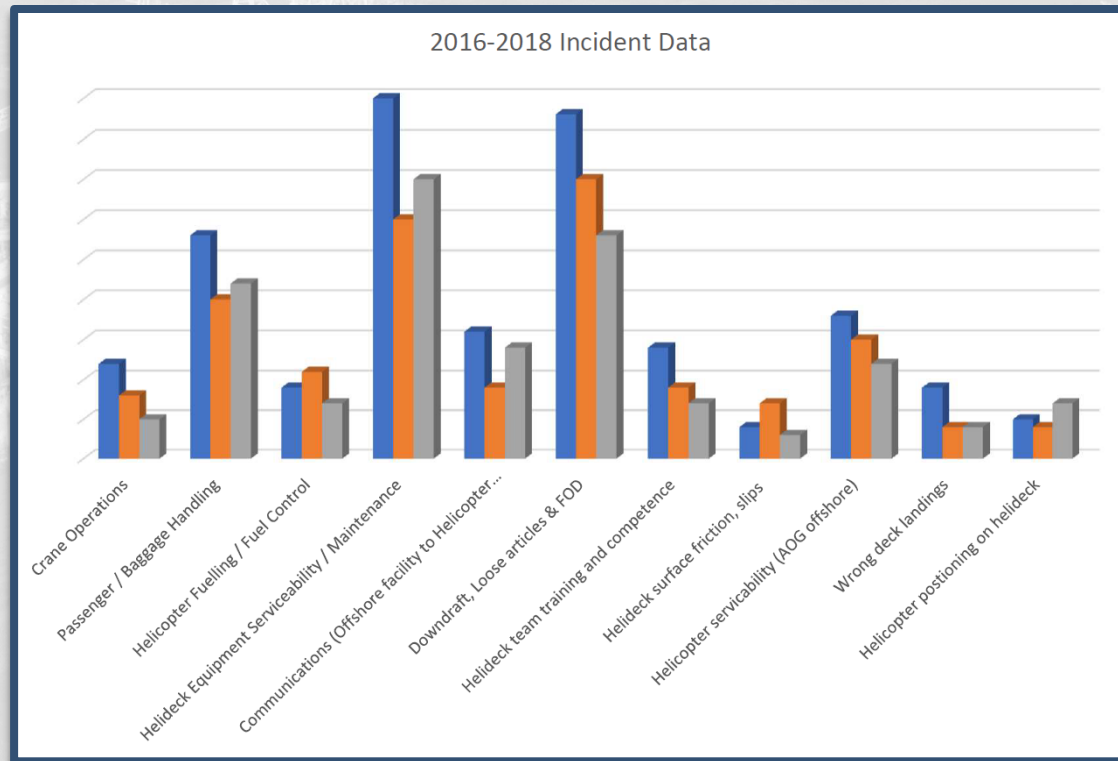
Industry Updates

HeliOffshore

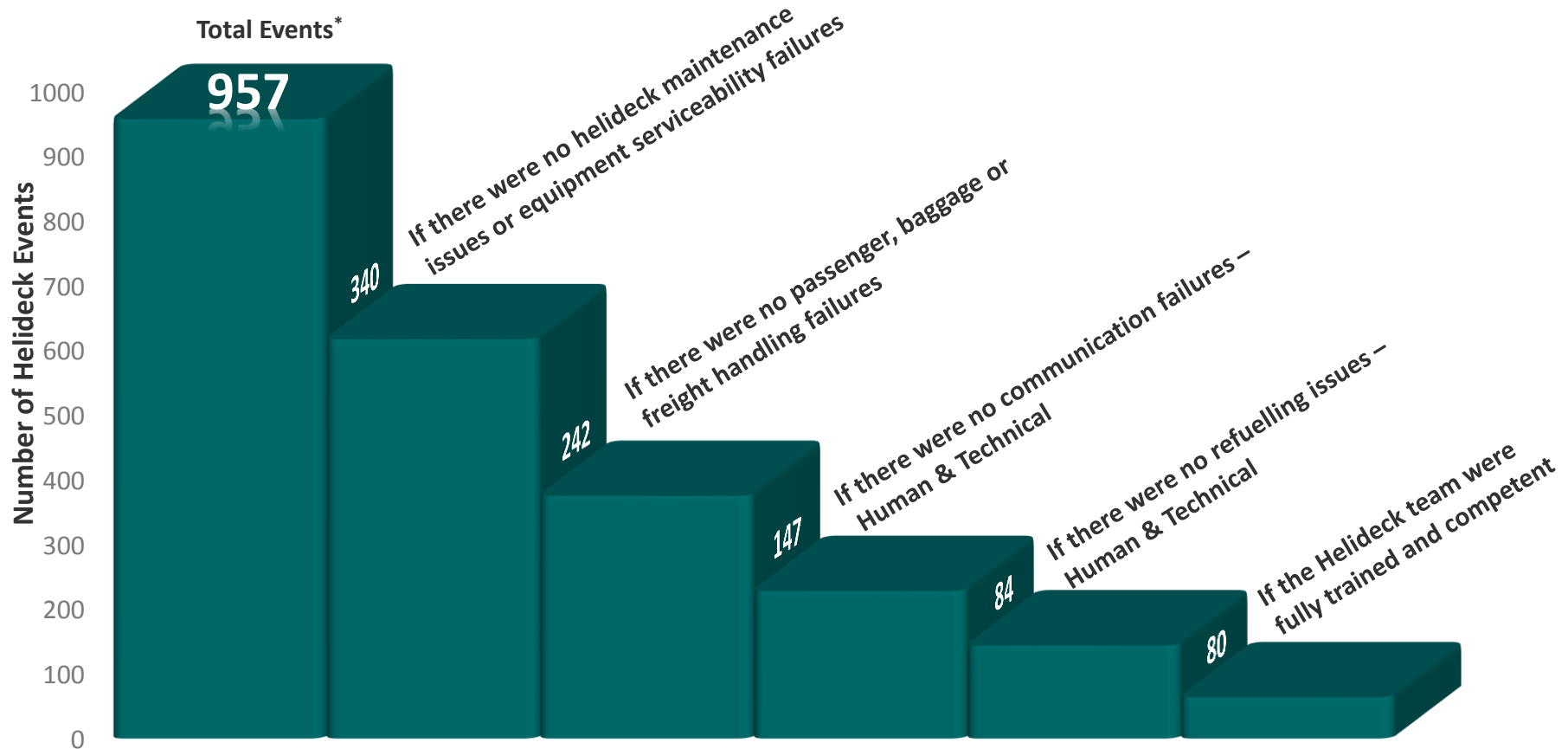


HeliOffshore Helideck WG

- Helideck Workgroup Charter Developed
 - Linking pin principle for membership
 - Helideck Occurrence Data Analysis to drive WG deliverables
 - Grouped
 - Prioritized
 - Developed
- Top 5*



Safety Staircase – Top 5 Helideck Events



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

HOHWG Priorities

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



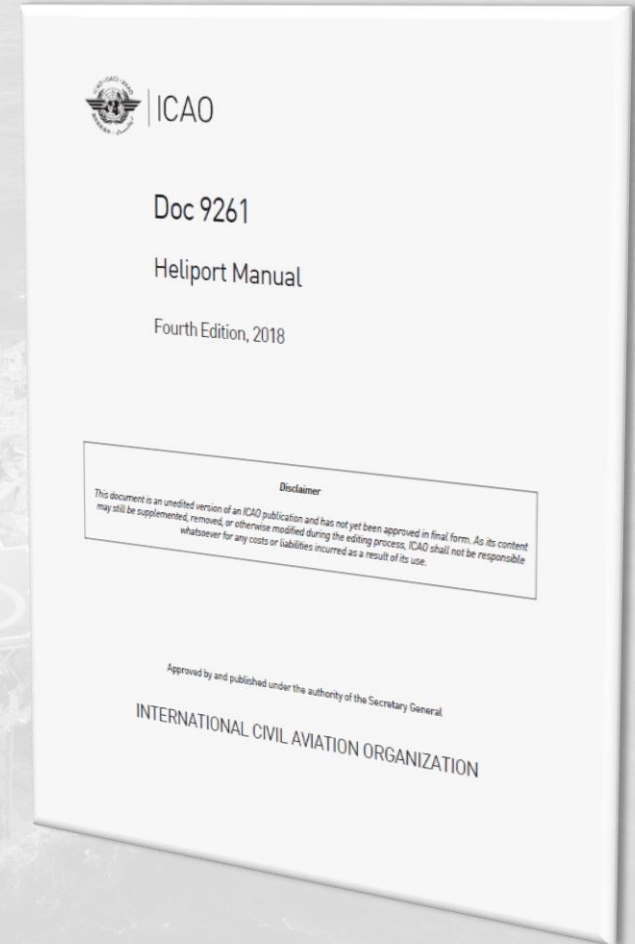
Industry Updates

ICAO Workgroup



Doc 9261 Heliport Manual Fourth Edition, 2018

- The Heliport Manual (Doc 9261) is divided into two parts to address helicopter landing areas at a range of offshore installations and vessels (Part I), as distinct from the heliports used in the onshore environment (Part II).





Part 1, Offshore Heliports

- Part I was developed by the Offshore subgroup of the Heliport Design Working Group (HDWG) of the ICAO Aerodrome Design and Operations Panel
- Part I, Offshore Heliports represents the first stage in the modernization and updating of the Heliport Manual in light of the substantial development of Annex 14 — Aerodromes, Volume II — Heliports in recent years, and of the equipment, technology and best practices used by the heliports arena
- Part II of this manual is planned for publishing in 2020



Part 1 - Contents

Chapter 1. General	1
Chapter 2. Heliport data	9
Chapter 3. Physical characteristics	14
Chapter 4. Obstacle environment	33
Chapter 5. Visual aids – Marking and lighting	43
Chapter 6. Helideck rescue and fire-fighting facilities	63
Chapter 7. Winching areas on ships	71
Chapter 8. Miscellaneous items	74
Appendix I-A. Sample risk assessment for helicopter operations to helidecks and shipboard heliports which are sub-1D	83



Part 1 Highlights

- Covers both Metric and Imperial Units
- Many HSAC Recommended Practices Used and/or Copied into Part 1
- Some deviations from the HSAC RPs

– E.g.

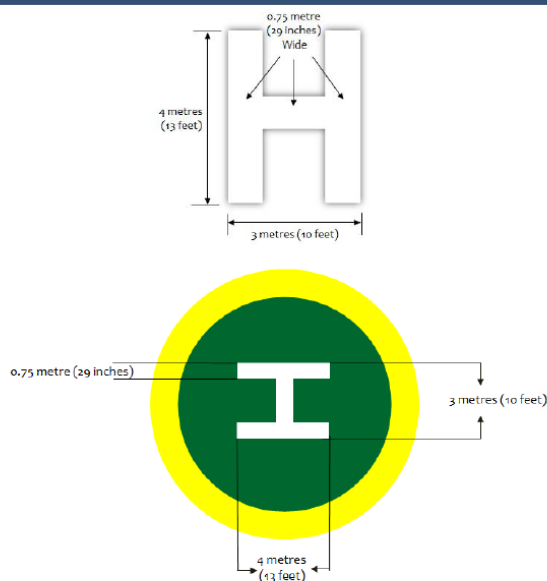


Figure I-5-2. Dimensions of the heliport identification "H" marking (standard size)

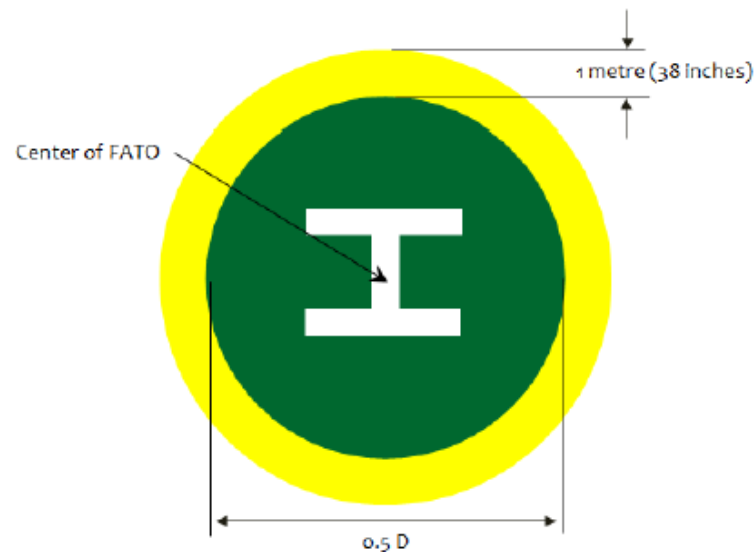


Figure I-5-7. Touchdown/positioning marking circle (painted yellow)



Part 1 Highlights - Continued

- 20 figures out of the total 53 figures in Part 1 were copied from HSAC RP 2016 Series documents
- This means that much of the developed HSAC RP material now is covered by ICAO, which in turn requires National Civil Aviation Authorities to align their respective guidance material and/or standards with ICAO Doc 9261
- If interested in a copy of Part 1 (ICAO Doc 9261), please let our WG Secretary know and you will receive a copy by email together with the meeting minutes



Agenda Item 3

Discussion on future work for
HSAC Helideck Committee



HSAC RP 2016 Series Promotion

- Awaiting decision for slots during CHC Quality & Safety Summit 2019 in Dallas, TX (2-3 Oct 2019)
- HSAC RP 2016-3 Familiarization Training prior to HSAC in New Orleans, LA (9-10 Oct 2019)
- HeliOffshore Workgroup input
- Rotor & Wing International Article
- Any other opportunities?
 - Acceptance/Equivalency Letter from BSEE and USCG
 - Communicate to Industry Magazines for publication



Consolidation of HSAC RPs

- With the publication of the HSAC RP 2016 Series, the content of many older RPs have become obsolete
- A review is necessary in order to assure that all content from older RPs has been included into the 2016 series, before the HSAC Board can be asked to remove the older RPs from the library
- Our Committee needs to scrutinize these older RPs and create a list of potential updates that need to be embedded in the 2016 series in order to be able to suggest removal



Tentative 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



Tentative 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



Obsolete RP's/Documents

- Reviewed in max. 4 weeks if each committee member reviews 2 or 3 RPs for full inclusion in the 2016 series
- Document/Copy paragraphs that have not been (fully) included
- We will add necessary verbiage during the -1, -2 and -3 updates that are necessary (see later slides)
- One-by-one provide obsolete RP numbers to HSAC Board with request to remove, providing assurance that no procedure/practice/process step is lost by the removal and that all content has been included in the 2016 series
 - Start next week
 - 12 Volunteers to cover the 16 RPs and 6 other documents
 - Weekly teleconference for updates.



ICAO Heliport Manual Part 1

- Alignment of HSAC RP Series with ICAO and -3
 - Concurrent review to align the following:
 - 2016-1 and 2016-2 with 2016-3 and ICAO Heliport Manual
- Proposed to start sub-committee workgroup to perform the review and develop the revised -1 and -2 documents aligned with ICAO and HSAC RP 2016-3
 - Weekly 1 hour teleconference meetings
 - 5 Volunteers
 - Start date: July 2019

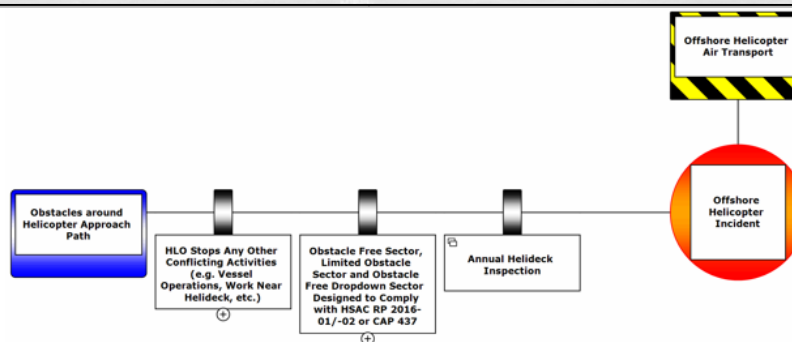


Develop HSAC RP 2016-5

- 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
 - 5 Volunteers (including PHI, Bristow and Era)
 - Anticipated start date: October 2019



HSAC RP 2019-1 Offshore Helideck Incident Bowtie



Safety Critical Equipment	Safety Critical Task	NUI
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4 Obstacles around Helicopter Approach Path					
4.1	HLO Stops Any Other Conflicting Activities (e.g. Vessel Operations, Work Near Helideck, etc.)		Helideck Operations Manual.	[3] Par 9.1.1.2	N/A
	4.1.1	Failure to Follow Procedures			N/A
	4.1.2	Lack of Warning During Approach			✓
	4.1.2.1	Pilot Notification during 20-min and 5-min call	[3] Appendix 1. Helicopter Operator's Ops Manual, VHF Radio(s) /w headset(s).	TBD	N/A
	4.1.2.2	Air Operator to perform a 360 degree orbit prior to landing	Helicopter Operator's Ops Manual.	TBD	✓
	4.1.2.3	Helideck Status Lights	[1] 7.5, [2] 5.5, [3] Par 7.5.1.5. Helideck Operations Manual, Helideck Status Lights, Back-up Generator, UPS.	[3] Appendix 1 [3] Appendix 3 Attachment 1 Par 3.1	✓
	4.1.2.4	HSAC RP 2016-03 Light Signal Procedures	[3] Par 9.9.2. Helideck Operations Manual, Signal Light.	[3] Par 9.9.2	N/A
	4.1.2.5	Pilot Decision to Return to Base	Helicopter Operator's Ops Manual.	TBD	✓
	4.2	Obstacle Free Sector, Limited Obstacle Sector and Obstacle Free Dropdown Sector Designed to Comply with HSAC RP 2016-01/-02 or CAP 437		[1] 4.3.5, [2] 3.4. Helideck Paint Scheme.	[3] Par 7.3.5 [3] Par 10.2.7.2 ✓



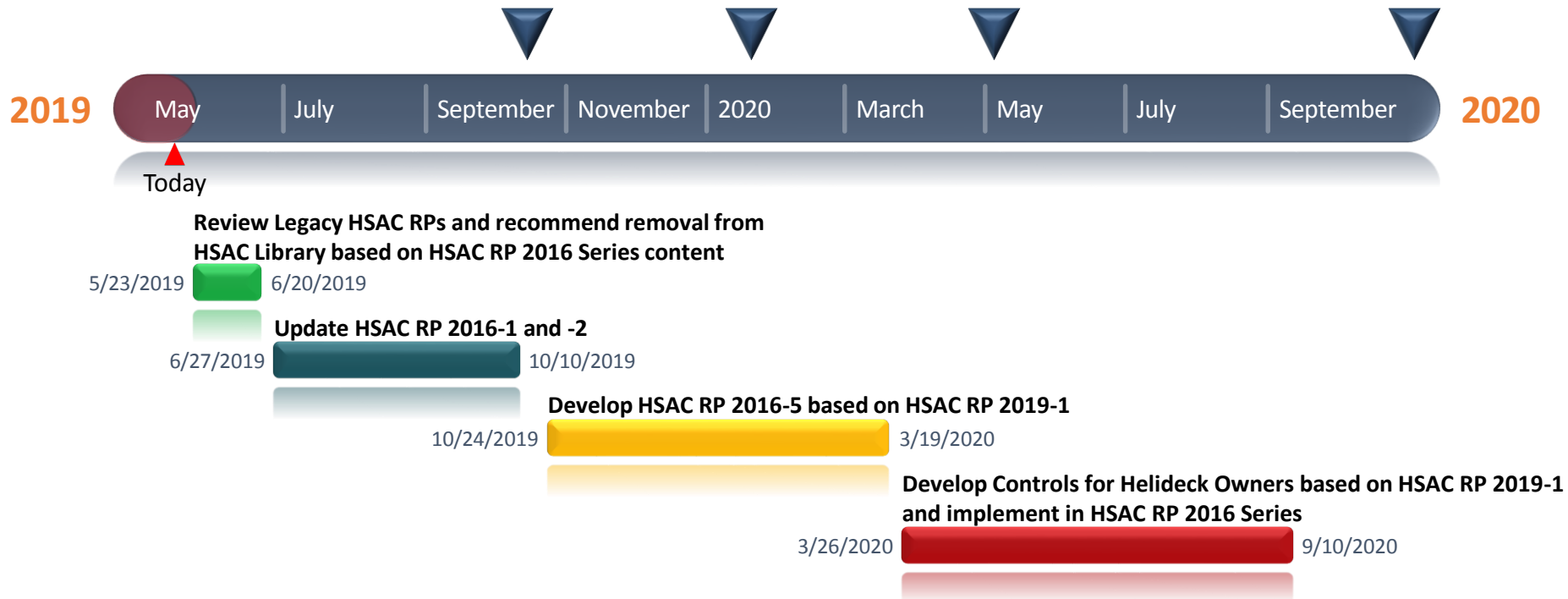
HSAC RP 2016 Series Update

- HSAC RP 2019-1 Offshore Helideck Incident Bowtie - Initial Issue (25Mar2019) provides Yellow Background 'TBD' sections for Controls/Barriers that are the responsibility of the Helideck Owner
- These 'New' Controls need further development and subsequent integration into the HSAC RP Series
 - Weekly 1 hour teleconference meetings
 - Volunteers will be requested next HSAC Meeting
 - Anticipated start date: March 2020



Proposed Timeline

HSAC Meetings





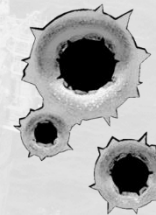
HSAC Poll

- The Helideck Committee has produced very comprehensive guidance materials in the form of RPs for use in the Offshore Helicopter Industry
- There was a request to ask HSAC Board to poll the members in order to assess which members have mandated any of the HSAC RP 2016 series documents as internal standard
- Can HSAC Board accommodate this request?



Q&A

Any saved rounds? ...





HSAC

Helicopter Safety Advisory Conference



Thank you!