



Civil Air Patrol



Lunch & Learn Webinar: ORM Overview

ONE CIVIL AIR PATROL, EXCELLING IN SERVICE TO OUR NATION AND OUR MEMBERS!



Presenters



Ron Olienyk
Dep Dir of Operations
National Headquarters



Kevin Conyers
Chief of Stan/Eval
National Headquarters

ONE CIVIL AIR PATROL, EXCELLING IN SERVICE TO OUR NATION AND OUR MEMBERS!



Rules of Engagement

- **Members in the field will be in listen only mode. We have several hundred members signed up, so having everyone with an open microphone is not supportable.**
- **We will try to answer questions throughout the webinar though. Just type your questions, and we will either answer you directly via text or provide a voice answer to your question.**
- **The webinar itself, questions, and chat log are being recorded, so please remain respectful.**
- **Time is limited...focus on the topic 😊**

ONE CIVIL AIR PATROL, EXCELLING IN SERVICE TO OUR NATION AND OUR MEMBERS!



Overview

- Current ORM Sheet:

CAP Air Sortie ORM eServices | Sign Out | Ronald D. Olenyk

About

- Getting Started
- Automatic Permissions
- Video Tutorials
- CAP Helpdesk

WMIRS 1.0 Links

- WMIRS 1.0 Main Page
- Alert Roster
- Trend Analysis

Command

- Enter New Mission
- Current Missions
- Enter Chaplain Mission
- Channel Plan
- Mission Facilities
- Unit Log
- Comm Log
- Status Board

Operations

- Air Sorties
- Air Sortie Quick Close
- Ground Sorties
- Channel Plan
- Unit Log
- Comm Log
- Status Board

Planning

- Sign In/Sign Out
- Unit Log
- Status Board

Logistics

Finance & Admin

Support

- Request/Close Out
- RON
- Misc. Expenses
- Unit Log
- Time Zone
- Reports
- Maintenance Module

**CIVIL AIR PATROL AVIATION
OPERATIONAL RISK MANAGEMENT WORKSHEET**

REQ-18-1289/A0003

Factor	Low	Moderate	High	No Go
Human				
Pilot Experience	<input checked="" type="radio"/> > 1,000 hours PIC (0.0 pts.)	<input checked="" type="radio"/> > 250 < 1,000 hours PIC (1.0 pts.)	<input checked="" type="radio"/> < 250 hours PIC (2.0 pts.)	
CAP Flying Experience	<input checked="" type="radio"/> > 50 hours mission time (0.0 pts.)	<input checked="" type="radio"/> > 25 hours < 50 hours mission time (1.0 pts.)	<input checked="" type="radio"/> < 25 hours mission time (2.0 pts.)	
Pilot Currency (90 Days)	<input checked="" type="radio"/> > 10 hours (0.0 pts.)	<input checked="" type="radio"/> > 5 hours < 10 hours (1.0 pts.)	<input checked="" type="radio"/> < 5 hours (2.0 pts.)	
Pilot Duty Day	<input checked="" type="radio"/> < 8 hrs (0.0 pts.)	<input checked="" type="radio"/> 8-10 hours (1.0 pts.)	<input checked="" type="radio"/> > 10 hours (2.0 pts.)	
Crew Rest	<input checked="" type="radio"/> Good Health and Fully Rested (0.0 pts.)	<input checked="" type="radio"/> Fair Health and / or some signs of fatigue (1.0 pts.)	<input checked="" type="radio"/> Fatigued (40.0 pts.)	
Mission				
Solo or Crewed	<input checked="" type="radio"/> Crewed (0.0 pts.)	<input checked="" type="radio"/> Solo (1.0 pts.)	<input checked="" type="radio"/> N/A (0.0 pts.)	
Sorties in a day	<input checked="" type="radio"/> One (0.0 pts.)	<input checked="" type="radio"/> Two (1.0 pts.)	<input checked="" type="radio"/> Three or more (2.0 pts.)	
Cumulative Sortie(s) Length	<input checked="" type="radio"/> < 2.5 hours (0.0 pts.)	<input checked="" type="radio"/> 2.5 - 4.0 hours (1.0 pts.)	<input checked="" type="radio"/> > 4.0 hours (2.0 pts.)	
Mission complexity	<input checked="" type="radio"/> Routine (0.0 pts.)	<input checked="" type="radio"/> Complex (1.0 pts.)	<input checked="" type="radio"/> Training (2.0 pts.)	
Overwater Flight	<input checked="" type="radio"/> Not overwater (0.0 pts.)	<input checked="" type="radio"/> No portion of flight beyond (1.0 pts.)	<input checked="" type="radio"/> Some portion beyond gliding distance to land (2.0 pts.)	
(if overwater) Immersion suit	<input checked="" type="radio"/> N/A (0.0 pts.)	<input checked="" type="radio"/> With immersion suit (1.0 pts.)	<input checked="" type="radio"/> Without immersion suit (40.0 pts.)	
Mountain Flying Winds Aloft -9/12K	<input checked="" type="radio"/> < 15 Knots (0.0 pts.)	<input checked="" type="radio"/> 15-25 Knots (1.0 pts.)	<input checked="" type="radio"/> > 25 Knots (2.0 pts.)	
Environment				
Time of Day	<input checked="" type="radio"/> Day (0.0 pts.)	<input checked="" type="radio"/> Dawn/Dusk (1.0 pts.)	<input checked="" type="radio"/> Night (2.0 pts.)	
T-Storms Enroute	<input checked="" type="radio"/> None (0.0 pts.)	<input checked="" type="radio"/> Isolated (1.0 pts.)	<input checked="" type="radio"/> Few or Greater (2.0 pts.)	
Turbulence	<input checked="" type="radio"/> < Light (0.0 pts.)	<input checked="" type="radio"/> Forecast or reported moderate (ex. AIRMET Tango) (1.0 pts.)	<input checked="" type="radio"/> Forecast Severe (40.0 pts.)	
ITS View Chart	<input checked="" type="radio"/> Normal (0.0 pts.)	<input checked="" type="radio"/> Caution (1.0 pts.)	<input checked="" type="radio"/> Danger (2.0 pts.)	<input checked="" type="radio"/> Cancel (No Go)
Wind Chill * View Chart	<input checked="" type="radio"/> Normal (0.0 pts.)	<input checked="" type="radio"/> Caution (1.0 pts.)	<input checked="" type="radio"/> Danger (2.0 pts.)	<input checked="" type="radio"/> Cancel (No Go)
Icing / Freezing Level	<input checked="" type="radio"/> None reported (0.0 pts.)	<input checked="" type="radio"/> Forecast icing within 2000' of highest flight planned altitude (1.0 pts.)	<input checked="" type="radio"/> Forecast/reported icing at or below highest flight altitude (40.0 pts.)	
VFR Flight ceiling/visibility	<input checked="" type="radio"/> >3,000 AGL And >5 SM (0.0 pts.)	<input checked="" type="radio"/> >1,000 AGL < 3,000 AGL And/or > 3 < 5 SM (1.0 pts.)	<input checked="" type="radio"/> <1,000 AGL and/or <3 SM visibility (40.0 pts.)	
IFR Flight ceiling/visibility	<input checked="" type="radio"/> >500 AGL and/or 1-3 SM visibility (0.0 pts.)	<input checked="" type="radio"/> < 500 AGL and/or < 1 SM visibility (1.0 pts.)	<input checked="" type="radio"/> Below departure airport approach minimums (40.0 pts.)	
Surface crosswind component	<input checked="" type="radio"/> < 5 knots (0.0 pts.)	<input checked="" type="radio"/> 6-10 knots (1.0 pts.)	<input checked="" type="radio"/> > 10 knots (2.0 pts.)	
Airfield	<input checked="" type="radio"/> Familiar and > 3,000 ft runway (0.0 pts.)	<input checked="" type="radio"/> Unfamiliar and/or Take Off Distance (TOD) > 1/2 Runway Length (1.0 pts.)	<input checked="" type="radio"/> Unfamiliar and/or Take Off Distance (TOD) > 2/3 Runway Length (2.0 pts.)	

ONE CIVIL AIR PATROL, EXCELLING IN SERVICE TO OUR NATION AND OUR MEMBERS!



Overview

- **New ORM Sheet (Scalable):**

DEVELOPMENT WMIRS

CAP Air Sortie ORM

Home > Mission Info > Operations > Air Sortie List > Air Sortie > ORM

CIVIL AIR PATROL AVIATION
OPERATIONAL RISK MANAGEMENT WORKSHEET

18-C-3003/A0004

[Jump to FRO Check](#)

Operational Risk Management Worksheet
This is the worksheet to calculate the score for the Operational Risk Management.

Airfield(s) Familiarity (Planned Departure and Landings including touch and goes)

Familiar - Have taken off, landed and taxied at all airports in the sortie planned at least once in the last year

Unfamiliar - Have not taken off, landed, and taxied at all airports in the sortie planned in the last year

Time of Day

Day

Civil Twilight

Night (IFR Rated Pilot)

Night (VFR Rated Pilot)

Thunderstorms (Forecast or Reported)

None

Few/Isolated; 25% or less

Widely Scattered/Scattered; > 25% <= 60%

Widespread; > 60%

Turbulence (Forecast or Reported)

Calm

Light

Moderate (ex. AIRMET TANGO)

ONE CIVIL AIR PATROL, EXCELLING IN SERVICE TO OUR NATION AND OUR MEMBERS!



New ORM Sheet Differences

- **No points visible on the ORM**
- **After ORM is submitted, any changes will result in a new approval process**
- **Can Copy ORM sheet for multiple sorties**
- **Next Webinar**
 - **FRO**
 - **SFRO**
 - **WG/CC**
 - **CAP/DO**



Scenarios

- **Low point**
 - Low time pilot
 - Doing proficiency
 - Good conditions
- **High point**
 - Day/Night
 - Cross Country to unfamiliar airfield
 - Thunderstorms in the area
 - 3 long sorties
 - Solo IFR Pilot



Video of Process

Video

ONE CIVIL AIR PATROL, EXCELLING IN SERVICE TO OUR NATION AND OUR MEMBERS!



Paper Copy

CAP AVIATION RISK MANAGEMENT WORKSHEET					
Pilot Name		Date	Mission #	Sortie	A/C #
Factor	Low	Moderate	High	Extreme	No Go
Airfield(s) Familiarity (Planned Departure and Landings including touch and goes)	Familiar Have Taken Off, Landed, and Taxied at all airports in the sortie planned at least once in the last year (0 pts)	Unfamiliar Have not Taken Off, Landed, and Taxied at all airports in the sortie planned in the last year (1 pt)			
Time of Day	Day (0 pts)	Civil Twilight (1 pt)	Night (IFR Rated Pilot) (2 pts)	Night (VFR Rated Pilot) (5 pts)	
Thunderstorms (Forecast or Reported)	None (0 pts)	Few/Isolated 25% or less (1 pt)	Widely Scattered to Scattered > 25% <= 60% (5 pts)	Widespread > 60% (10 pts)	
Turbulence (Forecast or Reported)	Calm (0 pts)	Light (1 pt)	Moderate ex. AIRMET Tango (5 pts)		No Go Forecast or Reported Severe or Extreme No Waivers Authorized
Index of Thermal Stress (View Chart Below)	Normal (0 pts)	Caution (1 pt)	Danger (3 pts)	Many Danger Sorties >= 4 Danger Sorties in the same operational period (5 pts)	Cancel Zone May Only Be Authorized by CAP/DO or designee after Risk Mitigation
Wind Chill Factor (View Chart Below)	Normal (0 pts)	Caution (1 pt)	Danger (3 pts)	Many Danger Sorties >= 4 Danger Sorties in the same operational period (5 pts)	Cancel Zone May Only Be Authorized by CAP/DO or designee after Risk Mitigation
Icing (Forecast or Reported)	None (0 pts)	Possible Within 2,000' (1 pt)	Very Possible Within 1,000' (3 pts)	Probable Within 500' (5 pts)	No Go At or below highest flight altitude No Waivers Authorized
Visual Flight Rules Current and/or Forecast Flight ceiling/visibility at Departure and Destination Airports <input type="radio"/> (N/A)	VFR > 3,000 AGL Ceiling and > 5 SM Visibility (0 pts)	Marginal VFR 1,000-3,000 AGL Ceiling or 3-5 SM Visibility (3 pts)			No Go < 1,000' AGL or < 3 SM May Only Be Authorized by CAP/DO or designee after Risk Mitigation
Instrument Flight Rules Current and Forecast Flight ceiling/visibility at Departure and Destination Airports <input type="radio"/> (N/A)	Good > 1000 AGL Ceiling and > 3 SM Visibility (0 pts)	Fair 500-1000 AGL Ceiling or 1-3 SM Visibility (3 pts)		Poor < 500 AGL Ceiling or < 1 SM Visibility or < Departure approach mins (30 pts) CAP/DO or designee approval required.	



Paper Copy

<p>Scores between <i>0 and 9</i> may be approved by any Flight Release Officer.</p> <p>Scores between <i>10 and 24</i> must be approved by a Senior Flight Release Officer.</p> <p>Scores between <i>25 and 29</i> must be approved by a Senior Flight Release Officer and the Wing CC, CV or DO.</p> <p>Scores greater than or equal to <i>30</i> must be approved by a Senior Flight Release Officer, the Wing CC, CV or DO, <u>and</u> the CAP/DO or their designee through the NOC.</p> <p>Disapproval at any level of the approval process terminates the request. Changes to the assessment after an intermediate approval require a restart of the process.</p>	<p>TOTAL SCORE</p> <div style="background-color: #f08080; padding: 2px; border: 1px solid black; text-align: center;">#VALUE!</div> <div style="background-color: #f08080; padding: 2px; border: 1px solid black; text-align: center;">#VALUE!</div>
<p>What are the risks you will face on this mission?)</p>	<p>What are you doing to mitigate these risks?</p>
<p>Identify any other mitigation methods employed to reduce risk.</p>	

Index of Thermal Stress

Dry Bulb Temp (F)	Dew Point Temp																			
	≤ 90 F	(91-100 F)	(101-115 F)	≥ 116 F																
70	74	75	77	79	81	82	84	86	88											
75	78	80	81	83	85	87	88	90	92	94										
80	82	84	85	87	89	91	92	94	96	98	99									
85	86	88	90	91	93	95	97	98	100	102	104	105								
90	90	92	94	96	97	99	101	103	104	106	108	110	111							
95	94	96	98	100	101	103	105	107	108	110	112	114	115	117						
100	99	100	102	104	106	107	109	111	113	114	116	118	120	121	123					
105	103	104	106	108	110	111	113	115	117	118	120	122	124	125	127					
110	107	109	110	112	114	116	117	119	121	123	124	126	128	130	132					
115	111	113	115	116	118	120	122	123	125	127	129	130	132	134	136					
120	115	117	119	120	122	124	126	127	129	131	133	134	136	138	140					

Wind Chill

Wind (knots)	Normal Zone (> 0°F)				Caution Zone (0°F to -29°F)				Danger Zone (-30°F to -50°F)				Cancel Zone (< -50°F)			
	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35
Calm	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35
5	36	30	24	18	12	6	0	-6	-12	-18	-23	-29	-35	-41	-47	-50
10	33	27	21	14	8	2	-5	-11	-17	-23	-30	-36	-42	-49	-55	-60
15	31	25	18	12	5	-1	-8	-14	-21	-27	-34	-40	-47	-53	-59	-65
20	30	23	17	10	3	-3	-10	-17	-23	-30	-37	-43	-50	-56	-62	-68
25	29	22	15	8	2	-5	-12	-19	-26	-32	-39	-46	-52	-58	-64	-70
30	28	21	14	7	0	-7	-14	-20	-27	-34	-41	-48	-54	-60	-66	-72
>30	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG



What You Can Do

- Emails will go out to the PIC and appropriate FROs.
- Developmental Server
 - <https://capdev.capnhq.gov>
- Test different scenarios
 - Low time pilot
 - Different Conditions
 - Etc.



QUESTIONS?

dov@capnhq.gov

ONE CIVIL AIR PATROL, EXCELLING IN SERVICE TO OUR NATION AND OUR MEMBERS!



Future Lunch & Learn Webinars

- **Changes to the Flight Release Process**
 - **16 November 2017**
 - **11:00 to 11:30 Central**
 - **<https://attendee.gotowebinar.com/register/5076746833230198275>**