

DPW-8 & AePW-4

Buffet Working Group



February 18, 2025

aiaabuffet@gmail.com



Upcoming Meetings

- **All-Hands DPW-8/AePW-4 meeting this spring (likely April)**
- **AVIATION: Special Sessions**
 - July 21-25, Las Vegas, NV
 - Considered an invited special session
 - 21 submissions

Test Case 1 Update

- Feedback?
- Questions?

- **Test Case 2: Rigid CRM → Update from Andrea today**
 - Unsteady CFD with committee-supplied static wing geometry
 - Not all unsteady CFD codes have unsteady FSI
 - Pre-buffet and post-buffet
 - Community feedback today and next week
 - Aim to release it by the end of the month
 - Anyone interested in testing the grids?
- **Test Case 3: Dynamic CRM**
 - Informal survey from the team (next slide)
 - Estimated to take ~six months (varies from four to nine)
 - Unsteady CFD, unsteady FSI with committee-supplied jig wing geometry
 - Difficult problem will stretch tools and methods
 - Extensive analysis, limited flow conditions

Test Case 3 Participant Feedback

Respondant	Institution Type	Start Time	Comments
1	Government	Fall	Loosely-coupled codes
2	Government	Fall	Unknown personnel support
3	Government	Fall	Need confidence in Test Case 2 first
4	Government	Any time	
5	Academia	Any time	
6	Academia	Any time	
7	Academia	Any time	
8	Industry	Any time	Limited compute availability
9	Government	Any time	



aiaabuffet@gmail.com