**CESTAC Review of Research Task  
*Please return this form to Joylynn Watkins before you leave***

Name of Evaluator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

FAA AST Research Areas:

1. Space Traffic Management and Launch Operations
2. Launch Vehicle Systems, Payloads, Technologies, and Operations
3. Human Spaceflight
4. Space Transportation Industry Viability

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| **THEME: SPACE TRAFFIC MANAGEMENT AND OPERATIONS** |
| 185. Unified 4D Trajectory (SU-Alonso)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 186. Space Environment MMOD Modeling & Prediction (SU-Close)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| **THEME: SPACE TRANSPORTATION OPS, TECH & PAYLOADS** |
| 258. Multi-disc Analysis of Safety Metrics (SU-Alonso)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |

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| 1515-1530  244. Autonomous RDV & Docking for Space Debris Mitigation (SU-Rock)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 259. Flight Software V&V for Safety (SU-Alonso)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| **THEME: SPACE TRAFFIC MANAGEMENT AND OPERATIONS** |
| 186. Space Environment MMOD Modeling & Prediction (CU-Matsuo for Fuller-Rowell)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 187. Space Situational Awareness (CU-Scheeres)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |

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| 247. Air & Space Traffic Considerations for CST (FIT-Villaire)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 220. Space Ops Framework (NMSU-Hynes)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 257. Master’s Ops Lab (CU-Born)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 244. Autonomous RDV & Docking for Space Debris Mitigation (UF-Fitz-Coy)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 244. Autonomous RDV & Docking for Space Debris Mitigation (FSU-Collins)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |

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| 244. Autonomous RDV & Docking for Space Debris Mitigation (CU-Axelrad)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 228. Magneto-Elastic Sensing for SHM (NMT-Zagrai, Ostergren)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 241. High Temp Pressure Transducers (UF-Sheplak)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 241. High Temp Pressure Transducers (FSU-Oates)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 253. Ultra High Temp Composites (UCF-Gou, Kapat)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |

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| **THEME: HUMAN SPACEFLIGHT RESEARCH** |
| 181. Physiological Database Definition and Design (UTMB-Vanderploeg)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 182. Commercial Spaceflight DRMs (UTMB-Vanderploeg)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 256. Centrifuge Testing (UTMB-Vanderploeg)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 183. Crew & HSP Medical Standards (UTMB-Jennings)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 255. Wearable Biomedical Equip (UTMB-Jennings)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 184. Commercial Spacecraft Human Rating (CU-Klaus)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| **THEME: SPACE TRANSPORTATION INDUSTRY VIABILITY** |
| 193. Role of COE CST in EFP (SU-Hubbard)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |
| 193. Role of COE CST in EFP (CU-Born)  **Alignment of research with FAA AST research area (eventually alignment with FAA AST Technology roadmap will be assessed)- Yes or No**  **Any comments on this presentation-**  **Suggestion for alignment with commercial space transportation industry needs-** |