**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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| 1515-1530244. 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-**  |