

**ENGINE RESEARCH BUILDING**  
**TURBOMACHINERY, COMBUSTION, HEAT TRANSFER & FLOW PHYSICS FACILITIES**

Current Schedule Revised: Fri 1/16/04

ID	Cell	Task Name	Status	Start	Finish	2004																		
						M	A	M	J	J	A	S	O	N	D	J	F	M	A	M				
1		<u>TURBOMACHINERY</u>		Mon 10/2/00	Fri 8/2/02																			
2	STANDBY	CE-18		Mon 10/2/00	Mon 10/2/00																			
3		SE-1		Mon 10/2/00	Mon 10/2/00																			
4	SE-1	Curved Diffuser Test	FIRM	Wed 10/1/03	Thu 9/30/04																			
6		SE-17		Mon 10/2/00	Fri 8/3/01																			
7	SE-17	Wave Rotor Testing	PLANNED	Thu 1/1/04	Thu 9/30/04																			
10		W-1A		Mon 10/2/00	Mon 10/2/00																			
20	W-1A	Stator Endwall Blockage Studies Mgmt. (Hub Blowing)	PLANNED	Wed 10/1/03	Thu 9/30/04																			
23		Full Annulus Stator Passage Flow Control	PLANNED	Wed 10/1/03	Fri 5/28/04																			
26	STANDBY	W-2B		Mon 10/2/00	Mon 10/2/00																			
27	STANDBY	W-5B		Mon 10/2/00	Mon 10/2/00																			
28	STANDBY	W-6A		Mon 10/2/00	Mon 10/2/00																			
29		W-7		Mon 10/2/00	Mon 10/2/00																			
35	W-7	2-Stage Compressor	FIRM	Thu 7/26/01	Fri 1/28/05																			
39	W-7	N-Stage Compressor	PLANNED	Wed 12/15/04	Tue 1/3/06																			
42		W-8		Mon 10/2/00	Mon 10/2/00																			
43	W-8	Casing Treatment - ROTOR 67	FIRM	Mon 10/21/02	Fri 7/30/04																			
46	W-8	Test	FIRM	Mon 8/2/04	Fri 9/30/05																			

**ENGINE RESEARCH BUILDING**  
**TURBOMACHINERY, COMBUSTION, HEAT TRANSFER & FLOW PHYSICS FACILITIES**

Current Schedule Revised: Fri 1/16/04

ID	Cell	Task Name	Status	Start	Finish	2004																		
						M	A	M	J	J	A	S	O	N	D	J	F	M	A	M				
49		COMBUSTORS		Mon 10/2/00	Mon 10/2/00																			
50		CE-5 B-1		Tue 10/30/01	Tue 10/30/01																			
54	CE-5B-1	Outside Customer	FIRM	Thu 4/3/03	Fri 10/31/03																			
56	CE-5B-1	Heat Exchanger CoF	FIRM	Mon 10/1/01	Fri 4/30/04																			
59		CE-5B-2		Tue 10/30/01	Tue 10/30/01																			
63	CE-5B-2	Validation Experiment	FIRM	Mon 9/1/03	Fri 10/31/03																			
66	CE-5B-1	Heat Exchanger CoF	FIRM	Mon 10/1/01	Fri 4/30/04																			
69	CE-5B-2	Validation Experiment	FIRM	Mon 5/3/04	Fri 8/13/04																			
71	CE-5B-2	Intelligent Engine Flametube Diagnostic Test	FIRM	Mon 8/16/04	Thu 9/30/04																			
73		CE-7C		Mon 10/2/00	Mon 10/2/00																			
74		Reformer Injector Test Rig	FIRM	Fri 6/6/03	Fri 7/30/04																			
77		CE-9B-A		Mon 10/2/00	Mon 10/2/00																			
78		CE-9B-B		Mon 10/1/01	Mon 9/30/02																			
79	CE-9B-B	NASA MEMS	FIRM	Mon 11/17/03	Fri 12/5/03																			
81		Combustor Instability Test	FIRM	Wed 10/15/03	Fri 3/19/04																			
84		NASA MEMS		Fri 4/23/04	Fri 4/23/04																			
86		CE-13A		Mon 10/2/00	Mon 10/2/00																			
87	CE-13	Aviation Safety	FIRM	Wed 10/1/03	Thu 9/30/04																			
89	CE-13	Aviation Safety	FIRM	Wed 10/1/03	Thu 9/30/04																			
91		CE-13C		Mon 10/2/00	Mon 10/2/00																			
92	CE-13	Aviation Safety	FIRM	Wed 10/1/03	Thu 9/30/04																			
94		SE-5		Mon 10/2/00	Mon 10/2/00																			
95	SE-5	High Pressure Gas Burner	Firm	Wed 10/1/03	Thu 9/30/04																			
97		SE-11		Mon 10/2/00	Mon 10/2/00																			
98	SE-11	Facility Construction/Installation	FIRM	Wed 2/13/02	Fri 1/16/04																			
100	SE-11	Particulate Analysis Laboratory Testing	FIRM	Mon 1/19/04	Thu 12/2/04																			

**ENGINE RESEARCH BUILDING**  
**TURBOMACHINERY, COMBUSTION, HEAT TRANSFER & FLOW PHYSICS FACILITIES**

Current Schedule Revised: Fri 1/16/04

ID	Cell	Task Name	Status	Start	Finish	2004																		
						M	A	M	J	J	A	S	O	N	D	J	F	M	A	M				
102		<u>FLOW PHYSICS &amp; HEAT TRANSFER</u>		Mon 10/2/00	Mon 10/2/00																			
111		CE-22		Mon 10/2/00	Mon 10/2/00																			
112	CE-22	NASA Reimbursable Model Test	Planned	Wed 10/1/03	Fri 5/14/04																			
116	CE-22	NASA Reimbursable Model Test #2	Tentative	Mon 5/17/04	Fri 7/30/04																			
119	CE-22	Outside Customer	Tentative	Mon 8/2/04	Thu 9/30/04																			
122		CE-12		Mon 10/2/00	Mon 10/2/00																			
123	CE-12	Calibration Activities		Wed 10/1/03	Thu 9/30/04																			
125		CW-7		Mon 10/2/00	Mon 10/2/00																			
126	CW-7	Boundary Layer Trans Tunnel Study	FIRM	Tue 10/1/02	Tue 9/30/03																			
128		CW-13		Mon 10/2/00	Mon 10/2/00																			
129	CW-13	Small Jet	FIRM	Wed 10/1/03	Thu 9/30/04																			
131	CW-13	20" x 30" Wind Tunnel	FIRM	Wed 10/1/03	Thu 9/30/04																			
133		CW-17		Mon 10/2/00	Mon 10/2/00																			
134	CW-17	Small Jet	FIRM	Wed 10/1/03	Thu 9/30/04																			
136	CW-17	Large Jet	FIRM	Wed 10/1/03	Thu 9/30/04																			
138		CW-22		Mon 10/2/00	Mon 10/2/00																			
139	CW-22	Cooled Blade Heat Transfer Test	Firm	Tue 10/1/02	Tue 9/30/03																			
141	CW-22	Cooled Blade Heat Transfer Test	Tentative	Wed 10/1/03	Fri 10/1/04																			
143		W-1B		Mon 10/2/00	Mon 10/2/00																			
144	W-1B	Advanced Integrated Inlet Diffuser Test	FIRM	Mon 6/9/03	Fri 10/31/03																			
146	W-1B	STRICT	TENTATIVE	Mon 10/13/03	Fri 4/30/04																			
150		W-6B		Mon 10/2/00	Mon 10/2/00																			
151	STANDBY	DUCT LAB		Mon 10/2/00	Mon 10/2/00																			
156	STANDBY	W-5A-1		Mon 10/2/00	Mon 10/2/00																			
157		W-5A-2		Mon 10/2/00	Mon 10/2/00																			
158	W-5A-2	Heat Trans Tunnel and Calibration Rig	Firm	Wed 10/1/03	Thu 9/30/04																			
160		W-5A-3		Mon 10/2/00	Mon 10/2/00																			
161	W-5A-3	Surface Roughness Vane Performance Wind Tunnel		Wed 10/1/03	Thu 9/30/04																			
166		W-6C		Mon 10/2/00	Mon 10/2/00																			
167	W-6C	Cold Cascade Studies	Tentative	Wed 10/1/03	Thu 9/30/04																			
169		<u>Drive Systems</u>		Mon 10/2/00	Mon 10/2/00																			
170		CE-1		Mon 10/2/00	Mon 10/2/00																			
171	CE-1	Component Level Vapor/Mist Test Demo	Firm	Tue 4/1/03	Fri 3/31/06																			
173	CE-1	Lube Model Validation	Tentative	Fri 4/1/05	Fri 9/28/07																			
175	CE-1	Spur Gear Database/Advanced Materials/Coatings	Firm	Wed 1/1/03	Wed 12/31/08																			
177	CE-1	Outside Customer-Face Gear Fatigue Program	Firm	Thu 5/15/03	Thu 6/30/05																			
179	CE-1	Spiral Bevel Gear Fatigue/Loss of Lube Component Testing	Firm	Fri 10/15/04	Fri 10/13/06																			
181		SW-8		Mon 10/2/00	Mon 10/2/00																			
182	SW-8	High Speed Gear Design Effect Testing	Firm	Wed 10/1/03	Fri 9/29/06																			

**ENGINE RESEARCH BUILDING**  
**TURBOMACHINERY, COMBUSTION, HEAT TRANSFER & FLOW PHYSICS FACILITIES**  
 Current Schedule Revised: Fri 1/16/04

Acting Facility Manager: Gwynn Severt  
 Phone: (216) 433-8310  
 Fax: (216) 433- 8551

ID	Cell	Task Name	Status	Start	Finish	2004																		
						M	A	M	J	J	A	S	O	N	D	J	F	M	A	M				
184	SW-8	Windage/Heat Transfer Improvement	Tentative	Fri 7/1/05	Wed 12/31/08																			
186		CE-28		Mon 10/2/00	Mon 10/2/00																			
187	CE-28	Spur Gear Fatigue Testing	Firm	Thu 1/15/04	Wed 12/31/08																			
189	CE-28	Hybrid Bearing Facility Build-Up	Firm	Wed 10/1/03	Thu 3/31/05																			
191	CE-28	Hybrid Bearing Diagnostics/Fault Detection Metrics Established	Firm	Mon 2/14/05	Mon 12/31/07																			
193		SW-11		Mon 10/2/00	Mon 10/2/00																			
194	SW-11	Seeded Fault Diagnostics Test Program	Firm	Wed 1/1/03	Fri 6/29/07																			
196	SW-11	Advanced Gearing Concept Tests	Tentative	Thu 7/1/04	Fri 12/15/06																			
198	SW-11	Advanced Sensor Validation Tests	Tentative	Mon 4/3/06	Mon 12/31/07																			
200		SW-13		Mon 10/2/00	Mon 10/2/00																			
201	SW-13	Test Facility Rehab to Operational Status	Firm	Thu 1/15/04	Thu 9/30/04																			
203	SW-13	Transmission Error, Gear Dynamics Code Validation		Fri 10/1/04	Wed 11/15/06																			
205		SW-7		Mon 10/2/00	Mon 10/2/00																			
206	SW-7	Test Facility Rehab	Firm	Tue 7/1/03	Fri 3/12/04																			
208	SW-7	Single Tooth Bending Rig Build-Up	Firm	Thu 1/15/04	Fri 1/14/05																			
210	SW-7	Single Tooth Bending Fatigue/Gear Tooth Cracking Studies	Tentative	Fri 10/1/04	Wed 12/31/08																			
212	SW-7	Gear Windage Facility Build-Up	Tentative	Mon 1/17/05	Fri 1/13/06																			
214	SW-7	Ultra-High Gear Windage Studies	Tentative	Thu 12/1/05	Wed 12/31/08																			

**ENGINE RESEARCH BUILDING**  
**TURBOMACHINERY, COMBUSTION, HEAT TRANSFER & FLOW PHYSICS FACILITIES**  
 Current Schedule Revised: Fri 1/16/04

2005								2006								2007								2008									
J	J	A	S	O	N	D		J	F	M	A	M	J	J	A	S	O	N	D		J	F	M	A	M	J	J	A	S	O	N	D	J



