Microgravity Combustion Science Discipline ISS Utilization Rate

Ass'y Seq.: POP-03 (3/24/03)

Update
4/1/2003

CIR Launch
1/2005; UF-3

Italics = PI placeholder (pre-SCR)

- Droplets (MDCA)
- Solids (FEANICS)
- Gaseous (MGFA)
- Other PSD program

Non-PSD users of CIR

- Commercial
- International

Combustion Integrated Rack

FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
		CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR
		CIR 1/05							
		DCE-2 Williams (P) Jan 05	DDCE Nayagam (97) Jan-06	FIST F-Pello (95) Oct-06	ATHINA Wichman (97) Nov-07	SIBAL T'ien (93) Jan-09	S-Flame Law (97) Jan-10	Cool Flames Pearlman (95) Nov-10	*02NRA-03* *tbd PI*
		BCDCE Shaw (95) Jan 05		REEFS Ronney (97) Oct-06	TIGER-3D Kashiwagi (93) Aug-08		Flame Design Axelbaum (97) Jan-10	*02NRA-02* *tbd PI*	*03NRA-02* *tbd PI*
		SEDC Choi (97) Jan-05		*STAF* *F-Pello (99)* Apr-07			Clean-Flames Cheng (97) Apr-10		
			CCA-1 (MIST) *McKinnon* Jan-06		*CCA-2* *(catalytic comb)* Apr-08	*CCA-3* *(material synth)* Jul-09	*(Spain)* *Tarifa* *Oct-09*		

FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG
	CFM-2 Dietrich Feb-04		*Smoke* *Urban (99)* Mar-06			*02NRA-01* *tbd PI*		*03NRA-01* *tbd PI*	*04NRA-01* *tbd PI*
EXPRESS	EXPRESS	EXPRESS	EXPRESS	EXPRESS	EXPRESS	EXPRESS	EXPRESS	EXPRESS	EXPRESS

	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
PI Operations/ year		0+1	3	1+1+	3	1+	2+1+	3+	2+1	2+1
Cumulative		1	4	6	9	10	13	16	19	22

Glovebox Investigation

	FY03	FY04
	FSDC-3 Williams Jul-03	SPICE Faeth Nov-03
Cumulative	1	2

Notes:

1) Baseline. Corresponds to GRC/MSD ISS Utilization Traffic Model 3/24/2003

2) Wedge 3 Flight PI's/annual NRA (1=>MSG, 2=>CIR)

3) Dates correspond to anticipated launch opportunities without regard to physical resource (upmass/volume, crewtime, etc.)

Combustion Science ISS Plan