NTF Test 229 - Common Research Model
Run Log

Series	Config	Trips	Tails	Data Type	α (deg)	φ (deg)	ReC (million)	Tem (°F)	Slots	0.00	0.20	0.25	0.40	0.50	0.60	0.70	0.80	0.83	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	WOZ	Tare Run	Date	Remarks
4b	3	Off	0	FPD	A2	0	5.0	120	6							205											4568	13	8-Oct-19	4409 had issue with data system, voided; pitch to home after 10.5 deg, FWOZ 4568
'	'	'	'	'	A2inv	180	'	'	'							206														
'	'	'	'	'	'	'	'	'	'										207											
'	'	'	'	'	A2	0	'	'	'								208													pitch to home at 7 deg
'	'	'	'	'	'	'	'	'	'							209														pitch to home at 10.5 deg
'	'	'	'	'	A2inv	180	'	'	'							210														
'	'	'	'	'	A2	0	'	'	'										211											pitch to home at 7 deg
'	'	'	'	'	A2inv	180	'	'	'										212											
Cooldown																														
7	3	Off	0	FPD	A3	0	30.0	-250	6							216											4674	13	29-Oct-19	pitch to home at 6.5 deg, BWOZ 4674
'	'	'	'	'	A2inv	180	'	'	'							217														
'	'	'	'	'	'	'	'	'	'										218								4742			pm alarm at -1.5, FWOZ 4742
'	'	'	'	'	A3	-0	'	'	'								219													pm alarm at -3; pitch to home at 6 deg
'	'	'	'	'	'	'	'	'	'												221						4745			BWOZ 4745
'	'	'	'	'	A4	'	'	'	'							222			223								4804			FWOZ 4804
'	'	'	'	'	'	'	'	'	'							224											4839			FWOZ 4839
'	'	'	'	'	'	'	'	'	'										225											
5	'	'	'	'	A3	0	19.8	-182	'							230											4942		30-Oct-19	pitch to home at 6.5 deg, BWOZ 4942
'	'	'	'	'	A2inv	180	'	'	'							231														
'	'	'	'	'	'	'	'	'	'										232								5013			FWOZ 5013
'	'	'	'	'	A3	0	'	'	'										233											pitch to home at 6 deg
'	'	'	'	'	A4	'	'	'	'												234						5014			pitch to home at 6 deg; void pt 5039, BWOZ 5014
'	'	'	'	'	'	'	'	'	'							235											5040			BWOZ 5040
'	'	'	'	'	'	'	'	'	'										236											
'	'	'	'	'	'	'	'	'	'							237											5076			BWOZ 5076
'	'	'	'	'	'	'	'	'	'										238											
6	'	'	'	'	A3	'	19.8	-250	'							241											5144		30-Oct-19	BWOZ 5144
'	'	'	'	'	A2inv	180	'	'	'							242														
'	'	'	'	'	'	'	'	'	'										243								5252			FWOZ 5252
'	'	'	'	'	A3	0	'	'	'										244											pitch to home at 6 deg
'	'	'	'	'	A4	'	'	'	'												245						5309			pitch to home at 6 deg, FWOZ 5309
'	'	'	'	'	'	'	'	'	'										246											
'	'	'	'	'	'	'	'	'	'							247														
'	'	'	'	'	'	'	'	'	'										248											
'	'	'	'	'	'	'	'	'	'							249											5340			FWOZ 5340
Model change to remove tails and convert to Wing-Body Configuration																														
9	1	Off	Off	FPD	A3	0	19.8	-250	6							257											5474	254	6-Nov-19	BWOZ 5474, pitch to home at 6 deg
'	'	'	'	'	A2inv	180	'	'	'							258														
'	'	'	'	'	'	'	'	'	'										259											
'	'	'	'	'	A3	0	'	'	'										260											pitch to home at 6 deg
'	'	'	'	'	'	'	'	'	'												262						5543			BWOZ 5543, pitch to home at 6 deg, void run 261
'	'	'	'	'	A4	'	'	'	'										263											
'	'	'	'	'	'	'	'	'	'							264														
'	'	'	'	'	'	'	'	'	'										265											
'	'	'	'	'	'	'	'	'	'							266														
10	'	'	'	'	A3	'	30.0	-250	'							267											5640			BWOZ 5640, pitch to home at 6.5 deg
'	'	'	'	'	A2inv	180	'	'	'							268														
'	'	'	'	'	'	'	'	'	'										269											
'	'	'	'	'	A3	0	'	'	'										270											pitch to home at 6 deg
'	'	'	'	'	'	'	'	'	'												272						5779			FWOZ 5779, pitch to home at 6 deg
'	'	'	'	'	A4	'	'	'	'							273														
'	'	'	'	'	'	'	'	'	'										274											
'	'	'	'	'	'	'	'	'	'							275														
'	'	'	'	'	'	'	'	'	'										276								5797			FWOZ 5797
8	'	'	'	'	A3	'	19.8	-182	'							278											5857		7-Nov-19	BWOZ 5857, pitch to home at 6.5 deg
'	'	'	'	'	A2inv	180	'	'	'							279														
'	'	'	'	'	'	'	'	'	'										280											
'	'	'	'	'	A3	0	'	'	'										281											pitch to home at 6 deg due to PM trip
'	'	'	'	'	'	'	'	'	'												282						5984			FWOZ 5984, pitch to home at 5.5 deg, void pt 5952
'	'	'	'	'	A4	'	'	'	'							283														
'	'	'	'	'	'	'	'	'	'										284											
'	'	'	'	'	'	'	'	'	'							285											6020			FWOZ 6020
'	'	'	'	'	'	'	'	'	'										286											
Model change to add trip dots to wing																														
11	1	On	Off	FPD	A2	0	5.0	120	6			290															6143	254	8-Nov-19	temperature control issues at 4-5 deg alpha
'	'	'	'	'	A2inv	180	'	'	'			291																		
'	'	'	'	'	A2	0	'	'	'							292											6353			-2 deg alpha @ 123 deg F, void pt 6165, pitch to home at 6.5 deg, BWOZ 6144
'	'	'	'	'	A2inv	180	'	'	'							293														
'	'	'	'	'	'	'	'	'	'										294											

NTF Test 229 - Common Research Model
Run Log

Series	Config	Trips	Tails	Data Type	α (deg)	φ (deg)	ReC (million)	Tem (°F)	Slots	0.00	0.20	0.25	0.40	0.50	0.60	0.70	0.80	0.83	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	WOZ	Tare Run	Date	Remarks
					A2	0													296											void run 295, pitch to home at 6 deg
'	'	'	'	'	'	'													296		297									pitch to home at 8 deg
'	'	'	'	'	'	'										299														void run 298
'	'	'	'	'	'	'													300											
'	'	'	'	'	'	'										301														
'	'	'	'	'	'	'													302											
VMD Wind-Off Polars																														
0	3	On	0	VMS	A1	0	0.0	120	2	22																				
'	'	'	'	'	'	'	'	'	6	31																				
'	'	'	'	'	'	'	'	'	'	75																				
'	'	'	'	'	'	'	'	'	'	98																				
'	'	'	'	'	'	'	'	'	4	99																				
'	'	'	'	'	'	'	'	'	'	119																				
'	'	Off	'	'	'	'	'	'	6	203																				
Tunnel Configuration Change to remove Slot Covers (6%)																														

Alpha Sweep Schedules
A1 (twics): -3 to +1 by 1, 1.5 to 5 by 0.25, 5.5 to 11.5 by 0.5
A1b (twics): -3 to +1 by 1, 1.5 to 11.5 by 0.5
A2 (CRM): -2, -1, 0 to 2.5 by 0.5, 3 to 6 by 0.25, 6.5 to 11.5 by 0.5 (0.25 and 0.7)
-2, -1, 0 to 1.5 by 0.5, 2 to 5 by 0.25, 5.5 to 11.5 by 0.5 (0.85 and 0.87)
A2inv (CRM): -1.5 to 1.5 deg by 0.5
A4 (CRM): 3 to 6 deg by 0.25 (0.25, 0.7) // 2 to 5 deg by 0.25 (0.85, 0.87)

Configuration Key
1: Wing/Body (WB)
2: Wing/Body/Pylon/Nacelle (WBPN)
3: Wing/Body/Horizontal Tail (WBT)

Data Type Key
FPD: Force, presure, and deformation data, timed 8 sec data point @ 40Hz
TWICS: Tunnel wall interference correction data
VMS: Video model deformation wind-off data

Acronym Key
BWOZ: Beginning wind-off zero
FWOZ: Final wind-off zero
FA: Flow angularity
FAS: Facility automation software
TT: Tunnel free-stream temperature
OOT: Out of tolerance
DS: Deep structure
PTH: Pitch to home
OS: Overshoot
PB: Pitch back
P/R: Pitch/roll