



CL 275 GALLON TANK

COC's Northop F-5 Capabilities







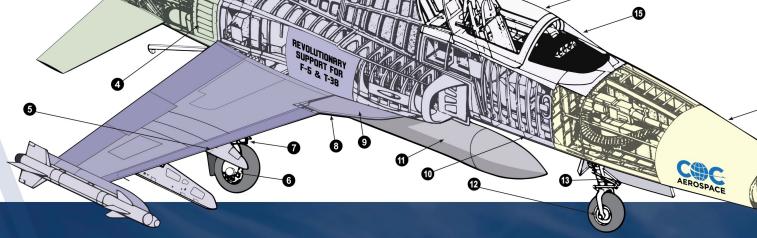
COC AEROSPACE INC



- 1. VERT TRAILING EDGE
- 2. RUDDER
- 3. HORN HORZ STABILIZER
- 4. AUX-AIR-ACTUATOR 14-50901-5
- 5. SEQUENCING SWITCH
- 6. PARKING BRAKE & ANTI-SKID
- 7. COLD-SPRAY REPAIR MAIN LANDING GEAR
- 8. ADAPTER, FUEL DRAIN
- E. LEX, W-6_IHQ PKG
- 10. COCKPIT LONGERONS
- 11. 275 GAL CENTERLINE FUEL TANK



- 12. COLD-SPRAY REPAIR WHEELS
- 13. COLD-SPRAY NOSE LANDING GEAR
- 14. GUN-GAS DEFLECTOR
- 15. WINDSHIELD REPAIR
- 16. CANOPY REPAIR
- 17. LEADING EDGE FLAPS
- 18. TRAILING EDGE PANEL
- 19. MAIN WING PANEL
- 20. GENERATOR
- 21. REGULATOR_CABLE TENSIONER
- 22. HORZ STABILIZER



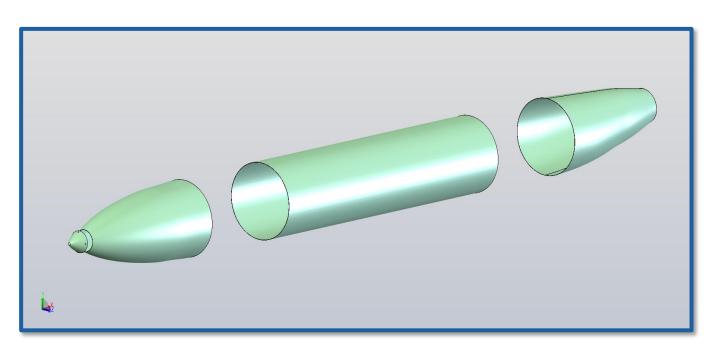


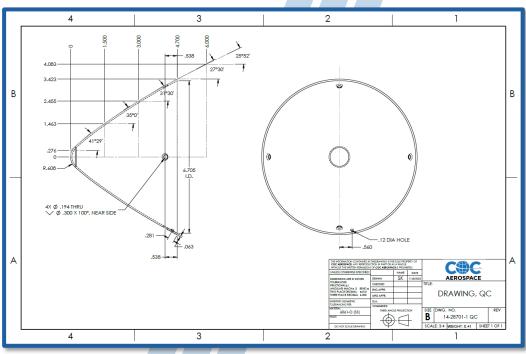
REVOLUTIONARY SUPPORT FOR NORTHROP F-5 & T-38 AIRCRAFT





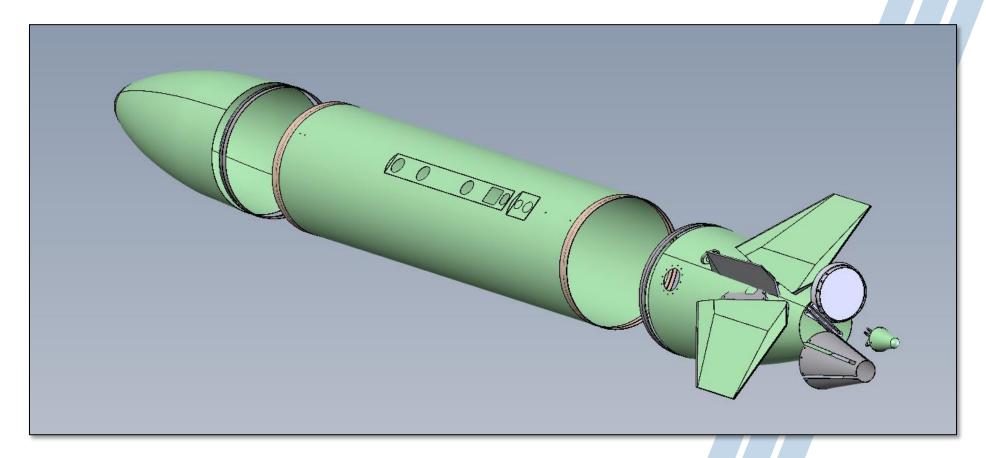














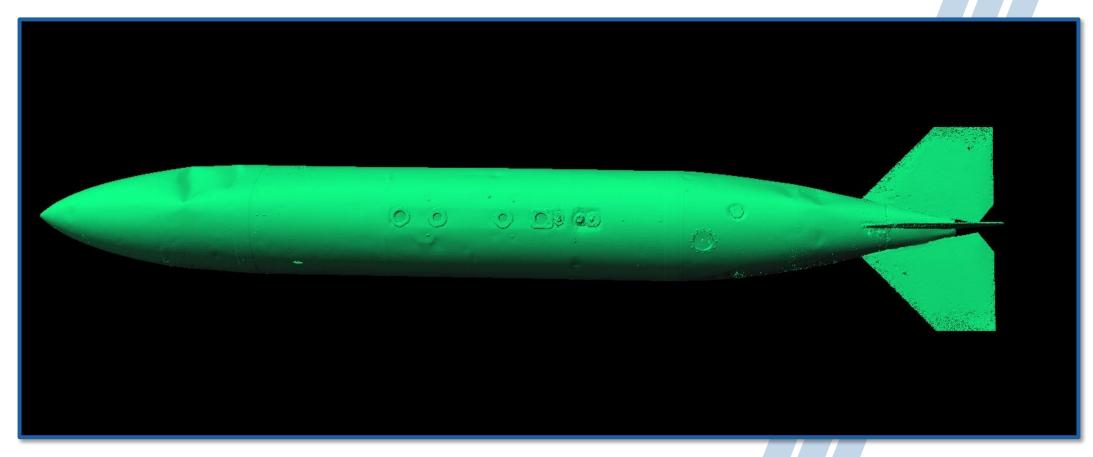






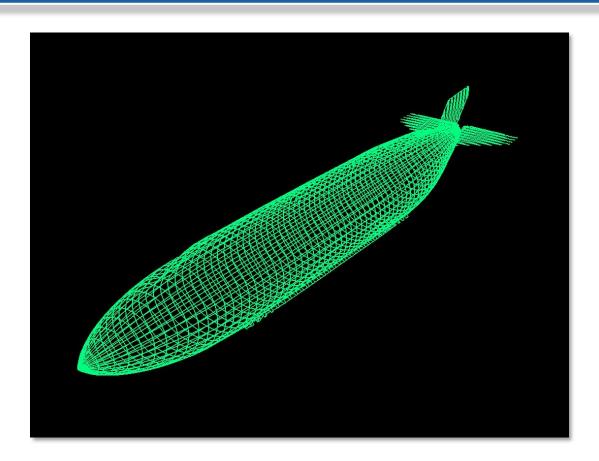


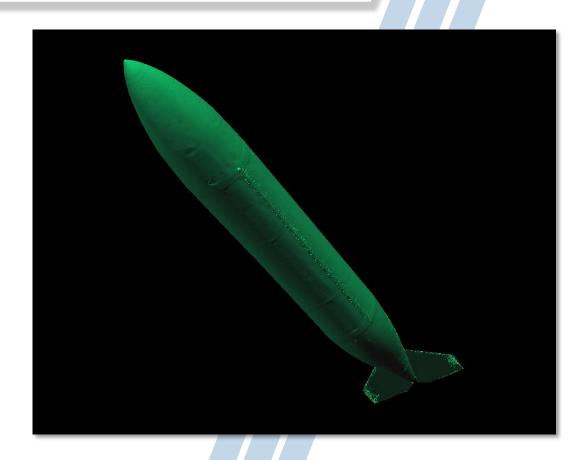






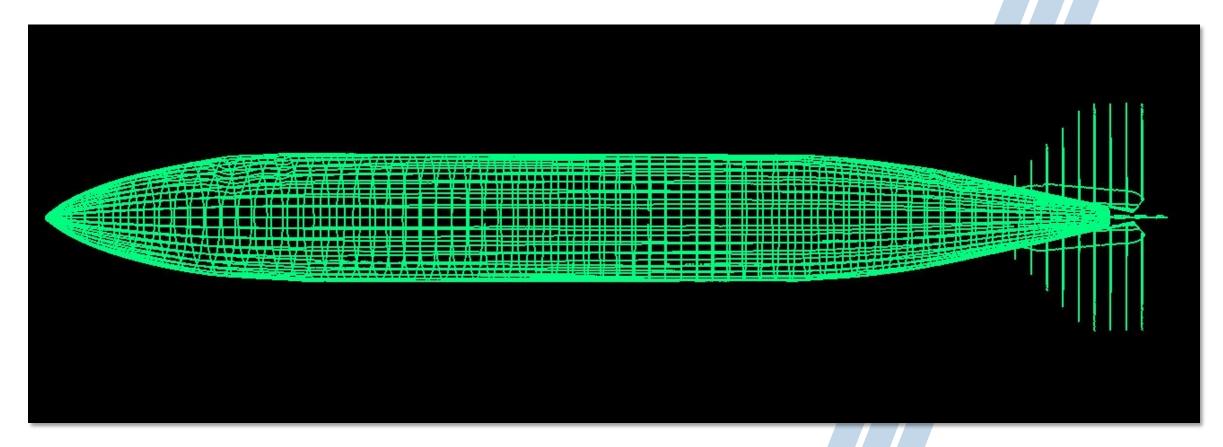






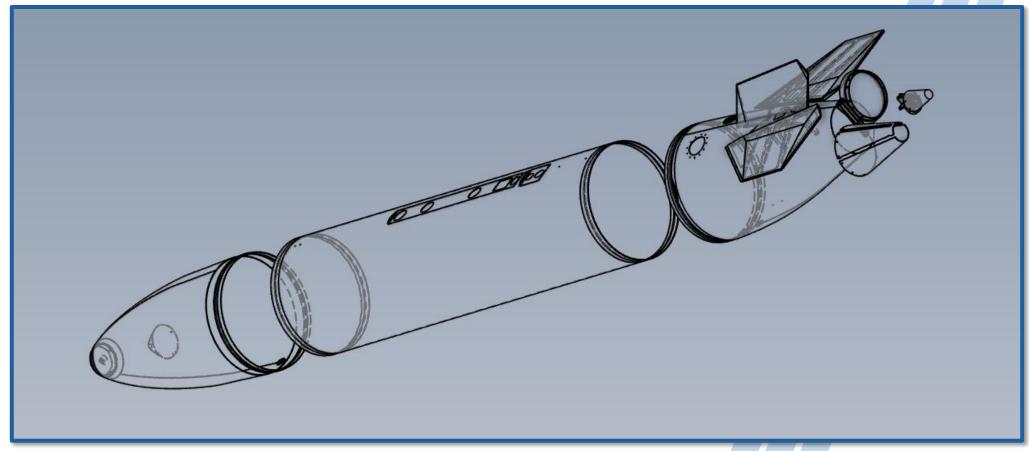






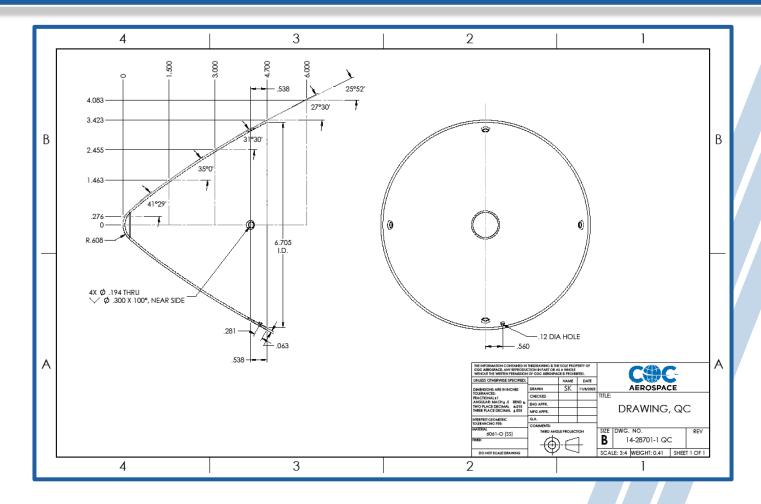






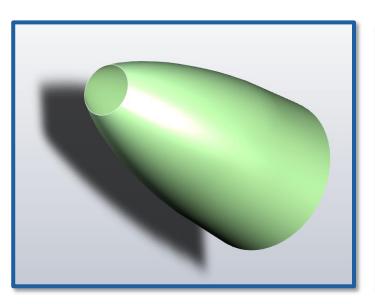


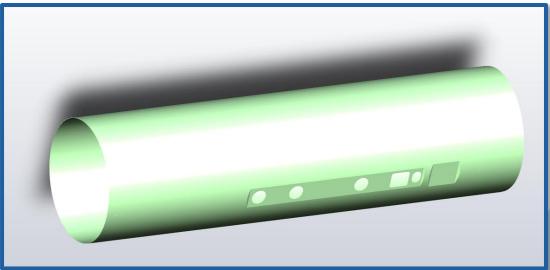


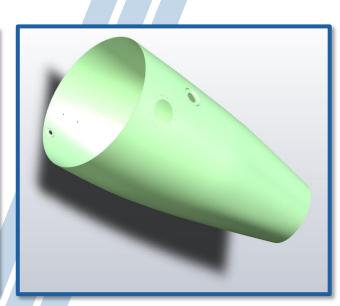












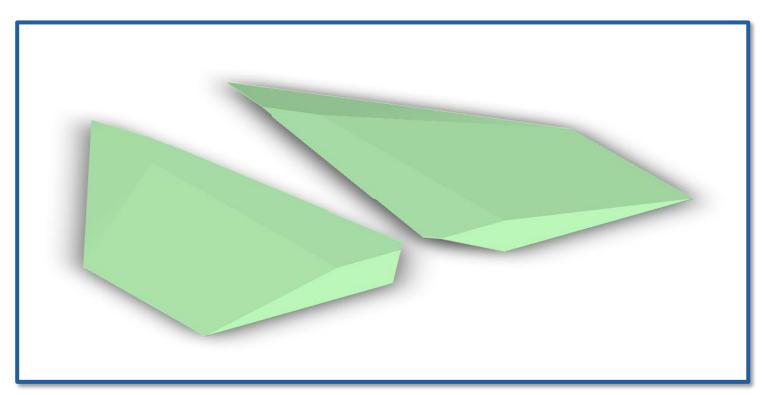


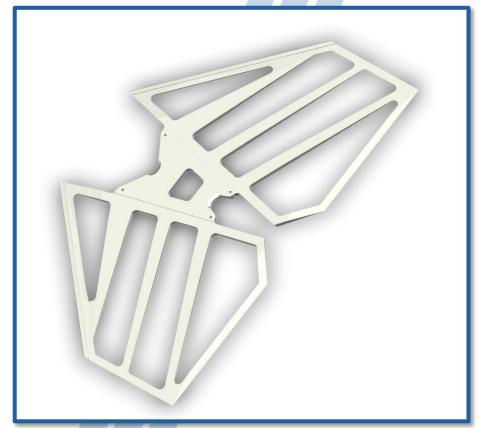






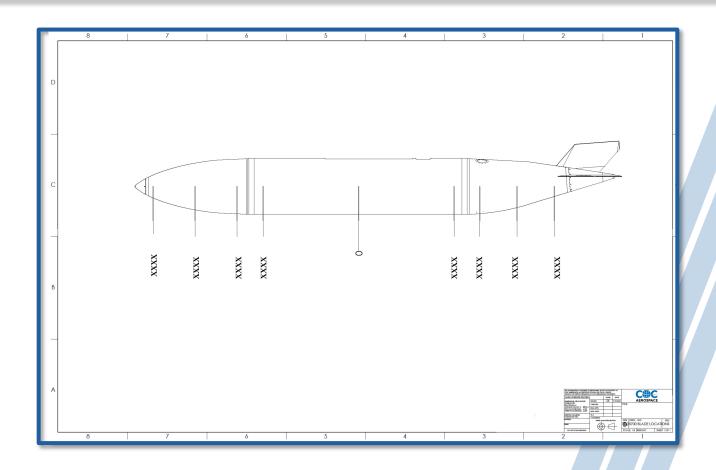




















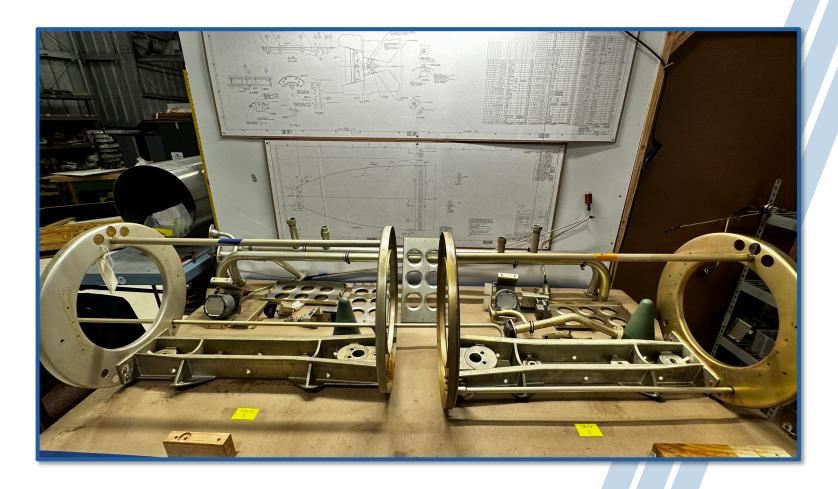


















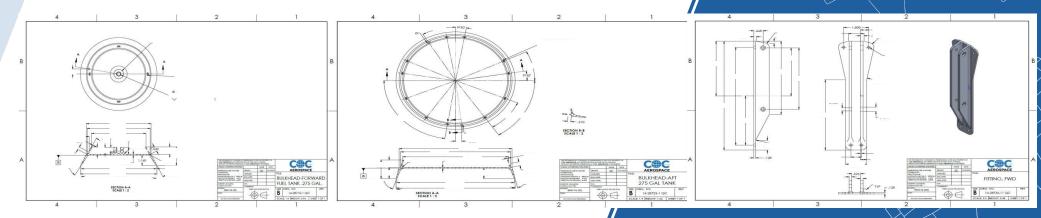


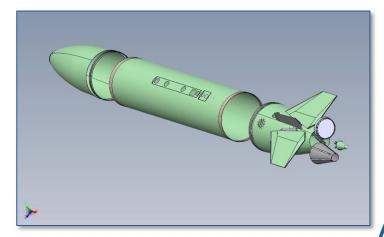


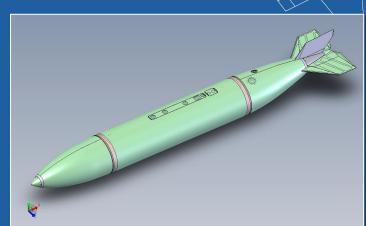
ENGINEERING DRAWINGS & CAD DEVELOPED BY COC AEROSPACE



COC has produced CAD models for over 37 different components that comprise the final assembly











































LIST OF COMPONENTS



Top Assembly consists of 341 Components listed on the main BOM (14-28700-5 Drawing)

Including:

- 57 Different Hardware items & their quantities
- 3 Different Vendor Items & their quantities
- All Sub-Assemblies & their Part/Manufacturing Requirements
- 1 Complete CL Fuel Tank Assy = 341 Components
- 6 Complete CL Fuel Tank Assys = 2046 Components
- 24 Complete CL Fuel Tank Assys = 8184 Components

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DRAWING #	REV	Quantity per Assembly	TOTAL QTY FOR 6 FINAL ASSYS	TOTAL QTY FOR 24 FINAL ASSYS	Part Number	MFG SPECIFICATION	Description	Material Description	SIZE	MATERIAL SPECIFICATION	ZONE	BOM
14-28700-5	G	2	12	48	45P107-24		GROMMET					
14-28700-5	G	10	60	240	51B221-3		SCREW, MACHINE					
14-28700-5	G	12	72	288	518221-5		SCREW, MACHINE, CLOSE TOLERANCE					
14-28700-5	G	4	24	96	518222-6		SCREW, MACHINE					
14-28700-5	G	4	24	96	518581-3-3		SCREW, CLOSE TOLERANCE				11	47
14-28700-5	G	11	66	264	518581-3-4		SCREW				3	49
14-28700-5	G	4	24	96	600-015-1/4		STAT-O-SEAL					
14-28700-5	G	22	132	528	600-015-10		STAT-O-SEAL					
14-28700-5	G	4	24	96	600-015-5/16		STAT-O-SEAL					
14-28700-5	G	2	12	48	7500-10		THREAD SEAL					
14-28700-5	G	1	6	24	7500-5\16*		THREAD SEAL					
14-28700-5	G	1	6	24	AN316-7R		NUT					
14-28700-5	G	8	48	192	AN3-3A		BOLT, MACHINE					
14-28700-5	G	4	24	96	AN4-11A		BOLT, MACHINE					
14-28700-5	G	4	24	96	AN4-12A		BOLT				3	45
14-28700-5	G	4	24	96	AN4-4A		BOLT					
14-28700-5	G	4	24	96	AN4-5A		BOLT, MACHINE					
14-28700-5	G	37	222	888	AN5-7A		BOLT, MACHINE					
14-28700-5	G	2	12	48	AN924-24D		NUT					
14-28700-5	G	1	6	24	AN924-28D		NUT					
14-28700-5	G	1	6	24	AN924-6D		NUT, PLAIN, HEXAGON					
14-28700-5	G	2	12	48	AN960-1016L		WASHER					
14-28700-5	G	22	132	528	AN960-10L		WASHER, FLAT					
14-28700-5	G	2	12	48	AN960-3016L		WASHER					
14-28700-5	G	1	6	24	AN960-3616L		WASHER					
14-28700-5	G	16	96	384	AN960-416L		WASHER,FLAT					
14-28700-5	G	37	222	888	AN960-516L		WASHER, FLAT					
14-28700-5	G	1	6	24	AN960-716L		WASHER, FLAT				3	44
14-28700-5	G	2	12	48	AN960D10		WASHER, FLAT					
14-28700-5	G	1	6	24	AN970-7		WASHER					
14-28700-5	G	4	24	96	MS20002C5		WASHER, RECESSED					
Totals			341	2046	8184							



21 SUB ASSEMBLIES COMPRISED OF 37 ENGINEERING DRAWINGS



448 PARTS PER ASSEMBLY 10,752 TOTAL PARTS FOR 24 ASSEMBLIES

Example: Assembly & Sub-assembly breakdown for 14-28704-1 Shell, Tank, Fuel, AFT (Total of 21 Components in Assy)

							//			7 \///			
Assembly Drawing	Assembly Name												
4-28704-1	Shell, Tank, Fuel, AFT												
		Component Name	Component P/N	Cty Per Assy	✓ Notes	Material Description	✓ Size	 Specification 	~ Zone	➤ BOM Item	Column1	Column2	-T
		NUT	FHN-6010-10-A		11 12,	-	8524	DEUTSCH FASTNER CORP		7	11		
		MARKING	14-28733-9		1					8	13		3-
		MARKING	14-28733-3		1					12	9		
		MARKING	14-28733-21		2					12	15		
		MARKING	14-28733-3		1					7	14		
		RECEPTICLE	MS90298-1		1					7	10		
		Assembly Drawing #	Assembly Name	Component Name	Component P/N	Qty Per Assy	Notes	Material Description	Size	Specification	Zone	BOM Item	
		14-28720-1	Plate, Identification	PLATE	14-28720-1	1	1,	AL FOIL	.003x3.1x4.1	.003x3.1x4.2	.003x3.1x4.3	12	
		14-28704-7			3,8	WELDMENT						9	4.
		Assembly Drawing #	Assembly Name						- 31				1
		14-28704-7	Shell, Tank, Fuel, AFT										
				Component Name	~ Component P/N ~	Qty Per Assy	~ Notes	✓ Material Description	→ Size	~ Specification	~ Zone	~ BOM Iter ~	
				SKIN	14-28704-5	The contract of the contract o	1	SH AL 6061-T4	.063x52x75	QQ-A-250/11		11	3.
			Assembly Drawing #	Assembly Name								-	
				Ferrule, Grooved, Clamp, Coupling,									
			14-28711-1	Nose & Tail	Component Name	Component P/N	Qty Per Assy	Notes	Material Description	Size	Specification	Zone	BOM Iter
					FERRULE (RING)	14-28711-1		1	14-28721-1 EXTR, AL 6061 T4	76.0 LG	QQ-A-200/8		
			Assembly Drawing #	Assembly Name	0 0 0						1000		
			14-28723-1	Bulkhead, AFT	Component Name	Component P/N	~ Qty Per Assy	∨ Notes	Material Description	~ Size	Specification	~ Zone	BOM Ite
MP TOTAL	21	i			BULKHEAD	14-28723-1		1	MAKE FROM -1F (FORG AL 6061-		MIL-A-22771		DOM: NE



HARDWARE ITEMS



1,138 SCREWS, BOLTS, RIVETS, CLAMPS, ETC. PER ASSEMBLY



27,312 TOTAL HARDWARE REQUIREMENTS FOR 24 CL FUEL TANKS

DRAWING #	Quantity per Assembly	TOTAL QTY FOR 6 FINAL ASSYS	TOTAL QTY FOR 24 FINAL ASSYS	Part Number	SEE NOTES	Description
14-28700-5	2	12	48	45P107-24		GROMMET
14-28700-5	10	60	240	51B221-3		SCREW, MACHINE
14-28700-5	12	72	288	51B221-5		SCREW, MACHINE, CLOSE TOLERANCE
14-28700-5	4	24	96	51B222-6		SCREW, MACHINE
14-28700-5	4	24	96	51B581-3-3		SCREW, CLOSE TOLERANCE
14-28700-5	11	66	264	51B581-3-4		SCREW
14-28700-5	4	24	96	600-015-1/4		STAT-O-SEAL
14-28700-5	22	132	528	600-015-10		STAT-O-SEAL
14-28700-5	4	24	96	600-015-5/16		STAT-O-SEAL
14-28700-5	2	12	48	7500-10		THREAD SEAL
14-28700-5	1	6	24	7500-5\16*		THREAD SEAL
14-28700-5	1	6	24	AN316-7R		NUT
14-28700-5	8	48	192	AN3-3A		BOLT, MACHINE
14-28700-5	4	24	96	AN4-11A		BOLT,MACHINE
14-28700-5	4	24	96	AN4-12A		BOLT
14-28700-5	4	24	96	AN4-4A		BOLT
14-28700-5	4	24	96	AN4-5A		BOLT, MACHINE
14-28700-5	37	222	888	AN5-7A		BOLT, MACHINE
14-28700-5	2	12	48	AN924-24D		NUT
14-28700-5	1	6	24	AN924-28D		NUT
14-28700-5	1	6	24	AN924-6D		NUT, PLAIN, HEXAGON
14-28700-5	2	24	48	AN960-1016L		WASHER
14-28700-5	22	132	528	AN960-10L		WASHER, FLAT
14-28700-5	2	12	48	AN960-3016L		WASHER
14-28700-5	1	6	24	AN960-3616L		WASHER
14-28700-5	16	96	384	AN960-416L		WASHER,FLAT
14-28700-5	37	222	888	AN960-516L		WASHER, FLAT
14-28700-5	1	6	24	AN960-716L		WASHER,FLAT
14-28700-5	2	12	48	AN960D10		WASHER, FLAT
14-28700-5	1	6	24	AN970-7		WASHER
14-28700-5	4	24	96	MS20002C5		WASHER, RECESSED
14-28700-5	2	12	48	MS21919DF10		CLAMP
14-28700-5	4	24	96	MS21919DF20		CLAMP
14-28700-5	4	24	96	MS21919DF24		CLAMP
14-28700-5	4	24	96	MS21919DF6		CLAMP



SHEET METAL PARTS



68 SHEET METAL PARTS PER CL FUEL TANK



DWG#	Qty per Assy	TOTAL QTY FOR 6 FINAL ASSYS	TOTAL QTY FOR 24 FINAL ASSYS	Part Number	SEE NOTES	Description	Material Description	SIZE	SPECIFICATION	ZONE	BOM
14-28700-5	1	6	24	14-28705-1		AFT CONE ASSY				3	5
14-28701-1	1	6	24	14-28701-1		SKIN	SH AL 6061 O	.071x13.0x13.0	QQ-A-250/11		1
14-28702-1	1	6	24	14-28702-3		SKIN	SH AL 6061-T4	.063x58x75	QQ-A-250/11	8	5
14-28702-1	1	6	24	14-28702-7	5,8	WELDMENT				6	7
14-28703-23	1	6	24	14-28703-23	5,	WELDMENT				7	20
14-28703-23	1	6	24	14-28703-25		SKIN	SH AL 6061 T4	.063x73.8x89.2	QQ-A-250/11	9	21
14-28703-23	8	48	192	14-28703-9		STOP	SH AL 6061-T4	.188x.6x.6	QQ-A-250/11	8	5
14-28704-1	1	6	24	14-28704-7	3,8	WELDMENT				9	4
14-28704-7	1	6	24	14-28704-5		SKIN	SH AL 6061 T4	.063x52x7.5	QQ-A-250/11	11	3
14-28705-1	1	6	24	14-28705-5	2,12,13	WEB	SH AL 7075- O	.065x11.1x13.8	QQ-A-250/12	4	3
14-28705-1	1	6	24	14-28705-15	12,13	SKIN	SH AL 7075 T6	.080x16.0x20.0	QQ-A-250/12	9	8
14-28705-1	1	6	24	14-28705-17	12,13	SKIN	SH AL 7075 T6	.080x16.0x15.0	QQ-A-250/12	9	9
14-28705-1	1	6	24	14-28705-27	12,13	SKIN	SH AL 7075 T6	.080x16.0x20.0	QQ-A-250/12	9	12
14-28705-1	1	6	24	14-28705-25	2,12,13	WEB	SH AL 7075 T6	.063x11.1x13.8	QQ-A-250/12	4	11
14-28705-1	1	6	24	14-28780-1		FIN, HORIZONTAL				5	37
14-28705-1	1	6	24	14-28736-5		FORMER, FWD				11	14
14-28705-1	1	6	24	14-28736-7		FORMER,AFT				8	15
14-28705-1	1	6	24	14-28705-3		WEB ASSY				6	2
14-28705-1	1	6	24	14-28705-23		WEB ASSY				6	6
14-28706-1	1	6	24	14-28706-1		TAIL CONE	SH AL 7075 O	.063x14.0x14.0	QQ-A-250/12		1
14-28715-11	1	6	24	14-28715-2	6	FORMER	SH AL 7075-0	.090 x 26 x 26	QQ-A-250/12		1
14-28715-11	1	6	24	14-28715-20		DOUBLER	SH AL 7075-T6	.125 x 5.8 x 16.6	QQ-A-250/12		2
14-28715-11	1	6	24	14-28715-13		DOUBLER	SH AL 7075-T6	.125 x 5.8 x 16.6	QQ-A-250/12		4



MACHINED PARTS



50 MACHINED PART COMPONENTS PER CL FUEL TANK



							L 1,4/ - \		
DWG#	Quantity per Assembly	TOTAL QTY FOR 6 FINAL ASSYS	TOTAL QTY FOR 24 FINAL ASSYS	Part Number	SEE NOTES	Description	Material Description	SIZE	SPECIFICATION
14-28703-23	1	6	24	14-28703-11		PAD	BAR AL 6061-T651	.62 DIA x .2	QQ-A-250/8
14-28703-23	4	24	96	14-28703-27		STOP	BAR AL 6061-T6511	.50 x 5 x4.0	QQ-A-250/8
14-28704-7	1	6	24	14-28711-1		FERRULE	14-28721-1 EXTR, AL 6061 T4	76.0 LG	QQ-A-200/8
14-28708-1	1	6	24	14-28708-1		LUG	BAR ST 4340	2.75 DIA x 4	MIL-S-5000
14-28710-1	1	6	24	14-28710-1		BULKHEAD	MAKE FROM -1F (FORG AL 6061-T6)		MIL-A-22771
14-28711-1	1	6	24	14-28711-1		FERRULE (RING)	14-28721-1 EXTR, AL 6061 T4	76.0 LG	QQ-A-200/8
14-28712-1	1	6	24	14-28712-1		RING/COUPLING	14-28722-1 EXTR, AL 6061-T4	76.0 LG	QQ-A-200/8
14-28712-1	1	6	24	14-28712-2		RING/COUPLING	14-28722-1 EXTR, AL 6061-T4	76.0 LG	QQ-A-200/8
14-28713-3	1	6	24	14-28713-3		CLAMP BAR	14-28761-1 EXTR; AL 6061-T4	94.0 LG	QQ-A-200/8
14-28714-1	1	6	24	14-28714-3		CLAMP BAR	14-28762-1 EXTR; AL 6061-T4	94.0 LG	QQ-A-200/8
14-28716-1	3	18	72	14-28716-5	13,	BLOCK	BAR AL 6061-T6	.50 x .50 x .40	QQ-A-225/8
14-28716-1	1	6	24	14-28716-3		BOX	BAR AL 6061-T651	3.00 x 3.00 x 4.0	QQ-A-225/8
14-28717-5	1	6	24	14-28717-3		PLATE	BAR AL 7075 T6	.125 x 1.0 x3.1	QQ-A-225/9
14-28723-1	1	6	24	14-28723-1		BULKHEAD	MAKE FROM -1F (FORG AL 6061-T6)		MIL-A-22771
14-28724-1	1	6	24	14-28724-3		ADAPTER	BAR AL 6061-T6511	2.00 x 5.00 x 5.0	QQ-A-200/8
14-28726-1	1	6	24	14-28726-1	(7 On Master BOM)	ADAPTER	BAR AL 2024-T4	3 x 3 x 3	QQ-A-225/6
14-28728-1	2	12	48	14-28728-1		PLUG	BAR AL 6061-T651	1.75 DIA x 1.0	QQ-A-225/8
14-28734-2	1	6	24	14-28734-2		BALLAST	CASTING, LEAD	1.50 x 3.32 DIA	AMS 7720
14-28734-3	1	6	24	14-28734-3		BALLAST	CASTING, LEAD	.50 x 2.70 DIA	AMS 7720
14-28734-4	1	6	24	14-28734-4		BALLAST	CASTING, LEAD	5.0 x 2.10 DIA	AMS 7720
14-28734-5	1	6	24	14-28734-5	3,	BALLAST	CASTING, LEAD	.8 x 4.66 DIA	AMS 7720
14-28735-9	1	6	24	14-28735-7		RING	TUBE AL 6061 T6	.125W x .2	WW-T-700/6
14-28736-5	1	6	24	14-28736-23 & 14-28736-24	4,5	ANGLE	BAR AL 2024-T351	1.4 x 2 x 3.7	QQ-A-225/6
14-28736-5	1	6	24	14-28736-3	4,5	FITTING, AFT	PL AL 7075-T7351	25 x 28 x4.3	QQ-A-250/12
14-28736-5	1	6	24	14-28736-11	4,5	FITTING, FWD	PL AL 7075-T7351	12.5 x 3.0 x9.2	QQ-A-250/12



TUBE ASSEMBLIES



12 TUBE COMPONENTS PER CL FUEL TANK

DWG#	Quantity per Assembly	TOTAL QTY FOR 6 FINAL ASSYS	TOTAL QTY FOR 24 FINAL ASSYS	Part Number	SEE NOTES	Description	Material Description	SIZE	SPECIFICATION	ZONE	BOM
14-28724-1	1	6	24	14-28724-5		TUBE	TUBE AL 6061-T4	1.5000.0x.058Wx3.0	WW-T-700/6	200	
14-28735-9	1	6	24	14-28735-3		TUBE	TUBE AL 6061 O	.750 OD x.49x2.5	WW-T-700/6		2
14-28735-9	1	6	24	14-28735-11	4,	TUBE	TUBE AL 6061 T4	.750 OD x.49x45	WW-T-700/6		6
14-28737-81	1	6	24	14-28737-83		TUBE	TUBE AL 5052-0	1.5 OD x .049W x 74	WW-T-700/4	6	3
14-28737-81	1	6	24	14-28737-7		TUBE	TUBE AL 5052-0	1.5 OD x .049W x 4	WW-T-700/4	5	4
14-28737-81	1	6	24	14-28737-9		TUBE	TUBE AL 5052-0	1.5 OD x .049W x 6	WW-T-700/4	4	5
14-28737-87	1	6	24	14-28737-85		TUBE	TUBE AL 5052-0	.375 OD x .035W x 27	WW-T-700/4	6	10
14-28737-93	1	6	24	14-28737-95		TUBE	TUBE AL 5052-0	1.5 OD x .049W x 22	WW-T-700/4	3	8
14-28760-11	1	6	24	14-28760-13	7,	TUBE	AL 5052-0	.625 O.D035Wx48	WW-T-700/4	3	7
14-28760-15	1	6	24	14-28760-17	7,	TUBE	AL 5052-0	.625 O.D035Wx37	WW-T-700/4	5	9
14-28760-3	1	6	24	14-28760-5		TUBE	AL 5052-0	1.25 O.D035Wx159	WW-T-700/4	5	3
14-28760-7	1	6	24	14-28760-9	7,	TUBE	AL 5052-0	.625 O.D035Wx42	WW-T-700/4	6	5
TOTAL	12	72	288	is a second							



VENDOR ITEMS



9 VENDOR ITEMS PER CL FUEL TANK



DWG#	Quantity per Assembly	TOTAL QTY FOR 6 FINAL ASSYS	TOTAL QTY FOR 24 FINAL ASSYS	Part Number	SEE NOTES	Description	Material Description	SIZE	SPECIFICATION	ZONE	BOM
14-28700-5	1	6	24	10006-1		CAP & ADAPTER ASSY	VENDOR ITEM SEE CONT DWG			4	68
14-28739-19	2	12	48	10005-1		FLOAT SWITCH				D5/A10	21
14-28737-91	2	12	48	10001-1		VALVE	VENDOR ITEM SEE CONT DWG			3 6	17
14-28737-91	1	6	24	10002-1		VALVE	VENDOR ITEM SEE CONT DWG				
14-28700-5	2	12	48	10003-1		VALVE, DRAIN	VENDOR ITEM SEE CONT DWG			9	67
14-28700-5	1	6	24	10004-1		VALVE, SNIFFLE	VENDOR ITEM SEE CONT DWG			5	66
TOTAL	9	54	216								



CONSUMABLES (SHELF-LIFE ITEMS)



6 CONSUMABLE ITEMS PER CL FUEL TANK



DWG #	Quantity per Assembly	TOTAL QTY FOR 6 FINAL ASSYS	TOTAL QTY FOR 24 FINAL ASSYS	Part Number	SEE NOTES	Description	Material Description	SIZE	SPECIFICATION	ZONE	BOM
14-28719-1	1	6	24	14-28719-1		GASKET	CORK-RUBBER SHEET	.125x7.0x7.0	MIL-G-6183. CL I, GR FIRM		1
14-28737-91	2	12	48	14-28758-1		RESTRICTOR	SPONGE/POLYUREPHANE, OPEN CELL, 10PPI	.75x2.1x2.1	COMMERCIAL	8	16
14-28709-2	2	12	48	14-287009-2		SEAL	RUBBER		MIL-P-5315		2
14-28718-1	1	6	24	14-28718-1		SEAL	SYNTHETIC RUBBER	NOTED	MIL-P-5315 OR EQUAL		1
TOTAL	6	36	144								



MISC. ITEMS (MARKINGS, ID PLATES, ETC.)



34 MISC. ITEMS PER CL FUEL TANK



DRAWING #	Quantity per Assembly	TOTAL QTY FOR 6 ASSYS	TOTAL QTY FOR 24 ASSYS	Part Number	NOTES	Description	Material Description	SIZE	SPECIFICATION	ZONE	BOM
14-28700-5	7			14-28733-1	REF DWG	MARKING INSTAL	IN	7		5	40
14-28702-1	1	6	24	14-28733-9		MARKING				4	12
14-28702-1	1	6	24	14-28733-13		MARKING				4	13
14-28702-1	2	12	48	14-28733-21		MARKING				5	16
14-28703-1	1	6	24	14-28733-11		MARKING				8	23
14-28703-1	2	12	48	14-28733-17		MARKING				8	24
14-28703-1	4	24	96	14-28733-19		MARKING				8	25
14-28703-1	2	12	48	14-28733-21		MARKING				7	26
14-28703-1	2	12	48	14-28733-23		MARKING				9	27
14-28704-1	1	6	24	14-28720-1		IDENT PLATE	AL FOIL	.003x3.1x4.1		1	7
14-28704-1	1	6	24	14-28733-3		MARKING				12	9
14-28704-1	1	6	24	14-28733-9		MARKING				8	13
14-28704-1	1	6	24	14-28733-3		MARKING				7	14
14-28704-1	2	12	48	14-28733-21		MARKING				12	15
14-28705-1	1	6	24	MS27606-1		MARKING				12	36
14-28729-1	1	6	24	NOTED	1,	WIRE	NOTE 1	SEE WIRE TABLE	NOTE 1		4
14-28729-1	1	6	24	PD TYPE I		CAP	CIN 08795	1/8IN. I.D. EXPANDED	RAYCLAD TUBES INC		7
14-28729-1	3	18	72	14-28729-5		SLEEVE		0.218 I.D.x2.0	MIL-1-3190/6		5
14-28748-1	2	12	48	14-28733-13		MARKING				4	6
14-28748-1	2	12	48	14-28733-15		MARKING				4	7
14-28749-1	1	6	24	14-28720-1	10	PLATE, IDENT				4	11
14-28752-1	2	12	48	14-28733-15		MARKING				5	7
TOTAL	34	204	816								



MANUFACTURING SPECIFICATIONS



198 Northrop Manufacturing& Process Specifications for Top & Sub-Assys of 275-Gal CL Fuel Tank

Drawing # 🗐 🖸	Drawing Rev ~	Process Spec #	Process Spec Title	✓ Spec Rev ✓
14-28700	G	EL-1.11	Sleeving & Tape in Electrical Applications	G
14-28700	G	EL-3.1	Electrical Bonding of Components & Systems	R
14-28700	G	EL-41	Crimp Disconnect Insulated Splices	В
14-28700	G	FH-16.1	Installation of Fluid Line Assy	G
14-28700	G	FH-16.2	Fluid Line Flared Tube & Hose End Fittings	E
14-28700	G	FH-21	Bolts, Screws, Nuts and Washers	L
14-28700	G	FH-32.1	Screw & Pipe Thread Tolerances	D
14-28700	G	FP-80	Application of Fluid-Resistant Epoxy Primer	H
14-28700	G	L-1	Anti-Seize Lubricants & Sealing Compounds	L
14-28700	G	QC-20	Aerodynamic Smoothness Requirements - F-5E/F & RF-5E Aircraft	F
14-28701	E	FH-29	Countersinking	J
14-28701	E	FP-28	Chemical Conversion Coatings, Colored, For Aluminum & Aluminum Alloys	J.
14-28701	E	FP-80	Application of Fluid-Resistant Epoxy Primer	Н
14-28701	E	FP-85	Application of Polyurethane Topcoats NAI-1278 & NAI-1290	H
14-28701	E	IM-23, TYPE I	Identification by Ink or Paint Marking	С
14-28701	E	MA-32.1	Fabrication of Sheet Metal Parts	C
14-28701	E	QC-20	Aerodynamic Smoothness Requirements - F-5E/F & RF-5E Aircraft	F
14-28702	F	FH-1	Solid Shank Rivets	Ĺ
14-28702	F	FP-28	Chemical Conversion Coatings, Colored, For Aluminum & Aluminum Alloys	ı
14-28702	F	FP-80	Application of Fluid-Resistant Epoxy Primer	H
14-28702	F	FP-85	Application of Polyurethane Topcoats NAI-1278 & NAI-1290	H
14-28702	F	IM-23, TYPE I	Identification by Ink or Paint Marking	C
14-28702	F	MA-19.9	Application of Marking Film - Pressure Sensitive	E
14-28702	F	MA-32.1	Fabrication of Sheet Metal Parts	C
14-28702	F	QC-20	Aerodynamic Smoothness Requirements - F-5E/F & RF-5E Aircraft	F
14-28702	F	QC-3	Quality Standards for Aluminum Alloy Sheet & Plate	E
14-28702	F	W3.2, CLASS 3	Fusion Welding of Aluminum Alloys	D
				1



COC MANUFACTURING PROCEDURES & CONTROLS INCLUDES DETAILED WORK CARDS FOR EACH OPERATION



Work Cards contain specific assembly instructions to ensure highest quality of finished parts

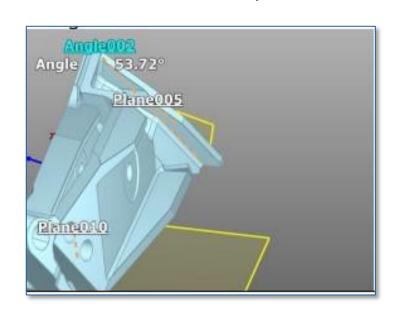
CARD NO. I	WORK AREA	(S) 1		TYPE MECH REO'D	MECH NO.	CARD TIME	SCHED START TIME	PUBLICATION NUMBER & DATE	
	GUDOSINOS		IT CODE FOR REPANCY	NOSE COI	NE INSTAL	LATION - I/A	/W T.O. 6J14-2	-33-2 IMI	
MAN MINUTES	WORK AREA	SYS	SUBSYSTEM OR COMPONENT	(INTERME	DIATE MA	AINTENANCE	INSTRUCTIONS)		
				ROD (10) 2. ATTACH BABALLAST (3) A 3. ATTACH NO ROD (10) 4. ATTACH RO CONE (1) USI	UT (8) & WASI ALLAST (7), BA AS REQUIRED UT (4) & WASI OD ASSEMBLY NG SCREW(S) OSE CONE ASS HELL	LLAST (6) & TO ROD (10) HER (5) TO TO NOSE (2)			

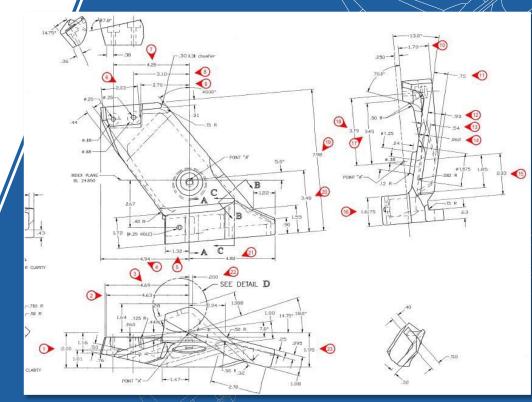


COC PERFORMS FIRST ARTICLE INSPECTIONS ON EACH OF THE COMPONENTS THAT MAKE UP THE 275-GAL CL FUEL TANK



COC is AS9100D Certified & staff is trained to COC's Work Instructions for all aspects of aerospace manufacturing, ensuring all dimensions are correct for each part, so that the final assembly meets all dimensional requirements.



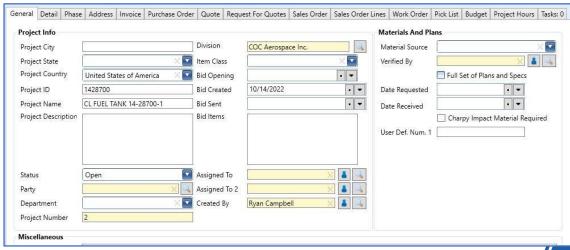




PRODUCTION PLANNING

- Master Data File
- Broken Down into Main Assy,
 Sub Assys, Raw Material
 Requirements (i.e. Sheet Metal,
 Machined Parts, Hardware, etc.)
- Requirements breakdown –
 Assys & their components





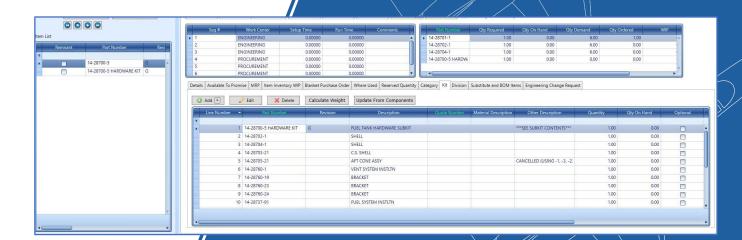


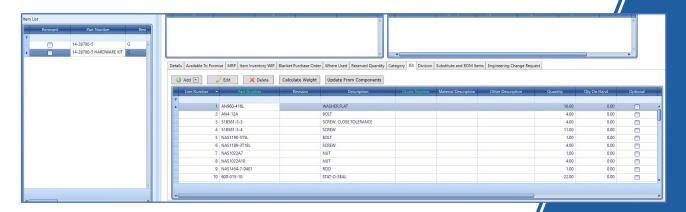
- **COC's ERP System**
 - Project ID used internally to manage all project data in one location (PO's, WO's, RFQ's, etc.)



PRODUCTION PLANNING

ERP-Aero allows the creation of component kits to effectively track & monitor all hardware & raw matl. requirements for each sub-assy







Ex: Hardware Kit



DELIVERY SCHEDULE FOR INITIAL 6 TANKS, PLUS 18 ADDITIONAL TANKS

275 Ga	llon C/L Fuel Tank Delivery S	chedule
Tanks 1-6		Delivery Schedule
Tank 1	275 Gallon C/L Fuel Tank	October 30, 2023
Tank 2	275 Gallon C/L Fuel Tank	November 30, 2023
Tank 3	275 Gallon C/L Fuel Tank	December 30, 2023
Tank 4	275 Gallon C/L Fuel Tank	January 15, 2024
Tank 5	275 Gallon C/L Fuel Tank	January 30, 2024
Tank 6	275 Gallon C/L Fuel Tank	February 15, 2024
	Additional Tanks	
Tank 7 & 8	275 Gallon C/L Fuel Tank	March 15, 2024
Tank 9-11	275 Gallon C/L Fuel Tank	April 15, 2024
Tank 12-14	275 Gallon C/L Fuel Tank	May 15, 2024
Tank 15-18	275 Gallon C/L Fuel Tank	June 15, 2024































The COC F-5 Team - www.coc-aerospace.com



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