NC33		Fuel supply line schematic					After Modification							
R 	R	R	<	R	R	from ENG	R	R	R	>	R	R	R	R I
- - - - -	S_P 	S_P	NV3 I LEV IND I NV4	S_P	TEE I NV5 ^ PMP ^ RAC I	S_P	Val_P	TEE FIL_1 I to ENG	Val_S	S_S	S_S	S_S	S_S 	
P_Tnk	> Port ta	NV2 ink	TEE	>	TEE	-	<	-	S_F	-	< S	NV1 tarboar	< d Tank	S_Tnk
Rfuel return from engine< or>direction of flowS_Pfuel supply to engine from port tankIvertical lineS_Sfuel supply to engine from starboard tankS_Ffuel supply to filter, crossover from both tank drain fittingsFIL_1primary filter, before engine filtersVal_PValve for control of fuel from port tank (original)Val_SValve for control of fuel from starboard tank (original)NV1New valve installed at starboard tank drainNV2NV2New valve installed at port tank drainNV3New valve installed on S_P, control flow from filterNV4New valve installed off tee from S_F, controls LEV INDNV5New Valve installed in line with filter and pump; for pump controlPMPfuel pump, 12 volt, low head, low flow(Walbro)RACRacor turbine / filterLEV INDtank level indicator, transparent tube that extends above tank open to airENGengine														
NC33 Fuel supply line schematic Original installation before modification														
R I I	R	R	<	R	R	from ENG	R	R	R	>	R	R	R	R I I
 	S_P 	S_P Drain 1	> an	S_P	>	S_P	Val_P	TEE FIL_1 I to ENG	Val_S	<		S_S ain Tap	S_S 	
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P_Tnk Port tank

Drain Tap Starboard Tank S_Tnk

valve Operating Modes											
	1	2	3	4	5	6	7	8	9	10	11
Val_P	х	0	х	х	0	х	х	х	х	0	0
NV2	Х	х	0	х	0	0	х	х	х	х	0
Val_S	х	0	х	х	0	х	х	х	0	х	х
NV1	Х	0	х	0	х	х	0	х	х	х	х
NV3	х	х	0	0	х	х	х	0	х	0	0
NV4	Х	х	х	х	х	0	0	0	х	х	х
NV5	Х	0	0	0	0	х	х	0	х	х	0
pump	off	on	on	on	on	off	off	on	off	off	on

x valve closed o valve open

1 on the hard and filter change

- 2 recycle starboard tank
- 3 recycle port tank
- 4 transfer St to Port
- 5 transfer Port to St
- 6 measure level port
- 7 measure level starboard
- 8 empty tube and drain filter
- 9 run engine starboard tank with filter off
- 10 run engine port tank with filter off
- 11 recycle port tank engine running

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