



SEE SHEET 5 FOR PLUMBING LAYOUT SCHEMATIC

REVISIONS

04-01-10	REWORKED THIS SHEET TO REFLECT THE USE OF TWO GALIL RIO CONTROLLERS	07-28-10	ADDED GUIDE TV PROTEUS SWITCHES AND PROTEUS PART NUMBERS
04-05-10	ADDED COOLING LOOP DESIGNATIONS AND SHOWED SOLENOIDS IN SAME UP/DOWN ORDER AS PHYSICALLY MOUNTED. ADDED PROTEUS FLOW SWITCHES AND DEW DETECTOR.	09-13-10	ADDED RTD 5 FOR UCAM CONTROLLER
04-06-10	ADDED SHEET 4 TO SHOW R/H SENSOR AND RTDS CONNECTED TO INTERNAL RIO	01-12-11	ADDED "RESERVED" TO DEW SENSOR AND UPDATED I/O BIT
04-14-10	ADDED TWO RTDS TO INTERNAL RIO. UPDATED I/O ASSIGNMENTS.	05-17-11	MOVED PROTEUS COOLENT FLOW SWITCH FOR INSTRUMENT TO MULTISTACK MONITOR. ADDED PAGE 6 TO THIS DOCUMENT.
04-19-10	ADDED IP ADDRESSES TO CONTROLLERS.	06-17-11	REMOVED GUIDE CAMERA "IN" FLOW SWITCH
04-30-10	ADDED SHEET 5 AND NOTE ABOVE	06-23-11	ADDED SPECTROGRAPHS FLOW METERS TO AI0 & AI1
07-21-10	UPDATED THE INTERNAL RIO IP ADDRESS	03-27-13	ADDED P/N TO BYPASS MANIFOLD FLOW METER

http://loel.ucolick.org/manual/APF/schematics/APF_cooling_sh_1.pdf

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		COOLING SYSTEM BLOCK DIAGRAM APF SPECTROMETER	
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