



KEYED NOTES:

- ① INSTALL ABSORBENT PAD (FURNISHED WITH SEPARATOR) UNDER TORPEDO. LAY DIAGONALLY.
- ② THROTTLE GLOBE VALVE TO REGULATE AIR FLOW TO PREVENT TORPEDO SEPARATOR FROM BLOWING OFF.
- ③ AUTOMATIC DRAIN VALVE FURNISHED WITH REFRIGERATED DRYER.
- ④ SECURE CABLE WITH WIRE TIE WRAPS (FURNISHED WITH TORPEDO) TO SUITABLE ANCHOR POINT.

DRAWING DEVELOPED FOR ML-3/
ML-4 PROJECTS. FOR ML-1/
ML-2, ADDITIONAL REQUIREMENTS
AND QA REVIEWS ARE REQUIRED.
(REMOVE THIS NOTE WHEN IN-
SERTED INTO A DRAWING PACK-
AGE).

NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

1. WHEN EDITING DETAIL TO SUIT PROJECT, ADD JOB SPECIFIC REQUIREMENTS AND DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS, CONTACT THE ESM MECHANICAL POC.
2. REFER TO THE FOLLOWING LANL STANDARDS FOR ADDITIONAL REQUIREMENTS:
 - A. ENGINEERING MANUAL, MECHANICAL CHAPTER.
 - B. MASTER SPECIFICATION 01 3545, WATER DISCHARGE REQUIREMENTS.
 - C. MASTER SPECIFICATION 22 1500, COMPRESSED AIR SYSTEMS.
3. ADD WATER PIPING AND ISOLATION VALVES IF COMPONENTS (COMPRESSOR, AFTERCOOLER, ETC) ARE WATER COOLED. USE NONPOTABLE WATER THAT IS CHEMICALLY TREATED.
4. ALL AUTOMATIC DRAIN VALVES TO BE ON A SINGLE DEDICATED CIRCUIT WITH A SINGLE RECEPTACLE (WITHIN 48") FOR EACH VALVE.
5. PROVIDE DRAIN LINE WHEN SPECIFYING A REFRIGERATED DRYER. HEATLESS REGENERATIVE DRYER DOES NOT REQUIRE A DRAIN LINE.
6. PROVIDE MOISTURE INDICATOR WHEN NOT PROVIDED WITH REGENERATIVE DRYER. DO NOT INSTALL ON SYSTEM WITH REFRIGERATED DRYER.
7. DETAIL SHOWS MINIMUM REQUIRED FILTERS FOR TYPE OF COMPRESSOR AND DRYER USED. COMPRESSED AIR SYSTEM MAY REQUIRE ADDITIONAL FILTERS AND POINT OF USE FILTERS. FOR EXAMPLE, AN OIL VAPOR ABSORBING FILTER, INSTALLED BETWEEN THE DRYER AND AFTERFILTER MAY BE REQUIRED WHENEVER OIL VAPORS (HYDROCARBONS ARE DETRIMENTAL TO EQUIPMENT OR PROCESS).
8. WHEN A SANITARY SEWER DRAIN IS NOT AVAILABLE, SPECIFY A COMMERCIALY AVAILABLE OIL/WATER SEPARATOR, SUCH AS, VAN AIR MODEL ES SERIES. CONSULT WITH MANUFACTURERS REPRESENTATIVE FOR APPLICATION AND SIZING INFORMATION).
9. REFER TO ISO 8573-1 AND THE ESM MECHANICAL CHAPTER SECTION D2090 FOR COMPRESSED AIR QUALITY GUIDANCE.

3	8-13-03	U		EDITORIAL CHANGES AND DWG NO. WAS STROGOL.	RP	JM	RR	GG	TO
2	9-8-02	U		REVERSED NOTES AND ADDED "ML" NOTES.	RP	JR	GG	GG	TO
1	2-7-01	U		REVERSED FLOW DIAGRAM, NOTES, AND ADDED SHEET 3 AND 4.	RP	JR	RR	TO	TO
NO	DATE	CLASS	REV	DESCRIPTION	OWN	DSGN	CHKD	SUB	APP

ENGINEERING STANDARDS PROGRAM

ENGINEERING STANDARDS MANUAL		DESIGN	R/PEARSON
		DESIGN	J.FATLUFF
COMPRESSED AIR COMPONENT DETAIL LUBRICATED COMPRESSOR, RECEIVER MOUNTED		CHECKED	R/ROMERO
BLDG X	TA-X	DATE	6-28-99
SUBMITTED FOR RELEASE		APPROVED FOR RELEASE	
DISCIPLINE POC: GURINDER GREWAL		STANDARDS MANUAL: TOBIN ORLICH	
		PO Box 1663 Los Alamos, New Mexico 87545	
CLASSIFICATION: U	REVIEWER: LARRY BAYS	DATE:	
PROJECT ID	DRAWING NO	REV	
CHAPTER 6		ST-D2090-1	
		1	4
		3	3