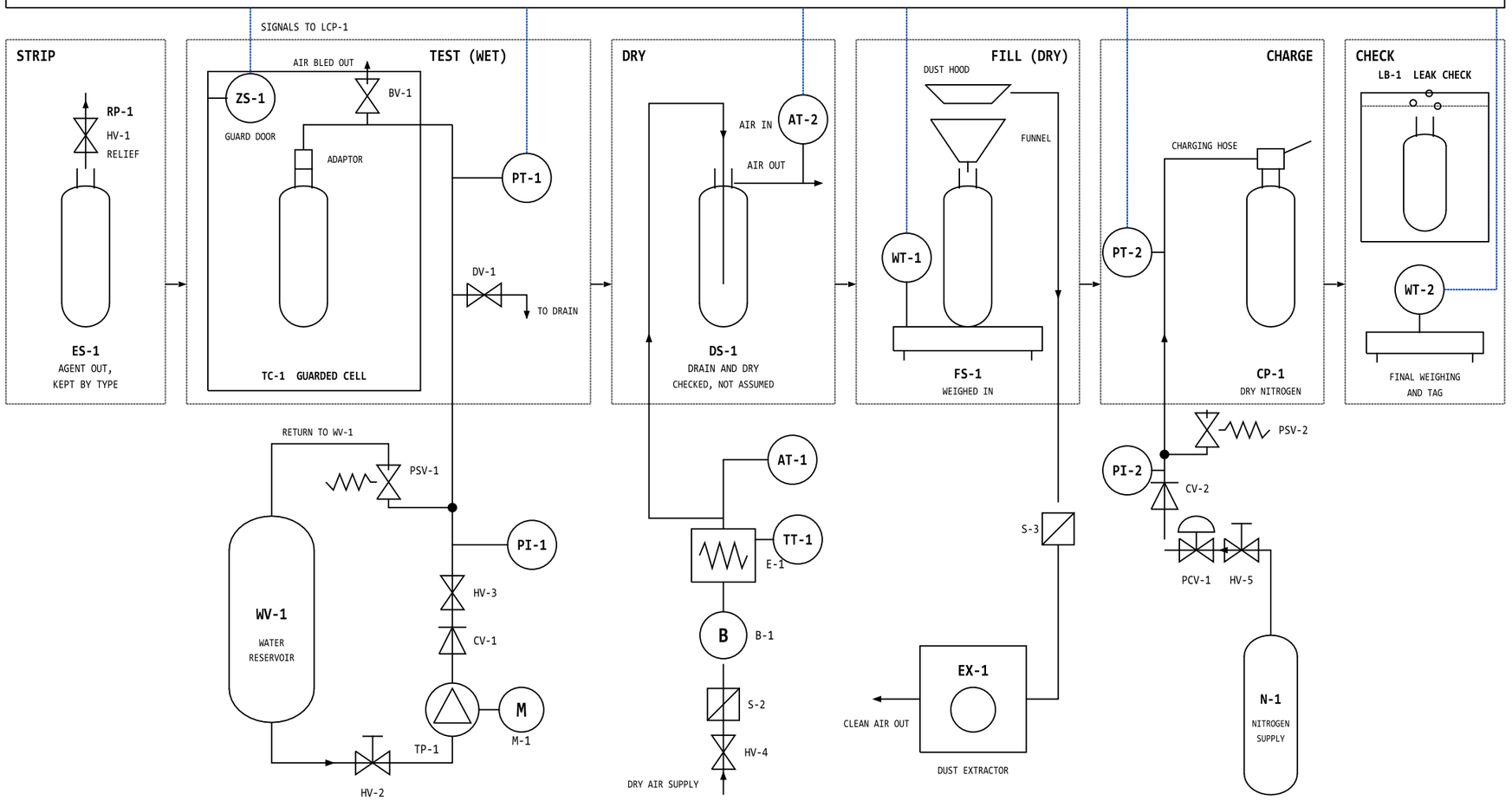
LCP-1 LINE CONTROLLER

TEST HOLD - INTERLOCKS - RELEASE AT EACH STATION - ONE RECORD FOR EACH UNIT



NOTES

1. REFERENCE SCHEMATIC OF A FIRE EXTINGUISHER TEST AND RECHARGE LINE FOR PORTABLE EXTINGUISHERS. TAGS ONLY: NO PRESSURE, INTERVAL, MASS, TIME OR SIZE VALUE IS GIVEN.
2. THE UNIT MOVES ONE WAY: STRIP, TEST, DRY, FILL, CHARGE, CHECK. A WET CYLINDER NEVER GOES BACK PAST THE DRYING STATION.
3. RP-1 LETS THE PRESSURE OUT BEFORE ANYTHING IS UNSCREWED. THE HEAD COMES OFF AND THE OLD AGENT IS EMPTIED AT ES-1, KEPT BY TYPE.
4. TC-1 IS A GUARDED CELL WITH AN INTERLOCKED DOOR, ZS-1. THE CYLINDER IS FILLED WITH WATER AND THE AIR IS BLED OUT AT BV-1 BEFORE TP-1 RAISES THE PRESSURE.
5. PSV-1 RETURNS TO WV-1. PT-1 READS THE TEST PRESSURE FOR HOLDING AND RECORD, AND PI-1 SHOWS IT LOCALLY. THE WATER IS DRAINED AT DV-1.
6. AT DS-1 WARM DRY AIR FROM B-1 AND E-1 IS PASSED THROUGH THE CYLINDER. AT-1 READS THE AIR GOING IN AND AT-2 THE AIR COMING OUT. THE UNIT IS RELEASED WHEN AT-2 MATCHES AT-1.
7. AT FS-1 THE AGENT IS WEIGHED IN ON THE SCALE THROUGH A FUNNEL, WITH THE DUST DRAWN AWAY BY EX-1 THROUGH S-3. WT-1 CONFIRMS THE MASS AGAINST THE MARK.
8. AT CP-1 DRY NITROGEN FROM N-1 PASSES HV-5 AND PCV-1 TO THE CYLINDER. PSV-2 STOPS AN OVERCHARGE, CV-2 STOPS BACK-FLOW AND PT-2 READS THE CHARGE.
9. AT LB-1 THE CHARGED UNIT IS CHECKED FOR A LEAK. WT-2 WEIGHS IT AGAINST THE MARK, AND IT IS TAGGED WITH THE DATE OF THE TEST.
10. LCP-1 RELEASES EACH STATION IN TURN AND KEEPS ONE RECORD FOR EACH UNIT. THE SIGNALS DRAWN ARE THE ONES THAT HOLD OR RELEASE THE UNIT.
11. PUMP, BLOWER, HEATER, EXTRACTOR, VALVES, INSTRUMENTS AND CONTROLLER ARE CATALOGUE ITEMS, BOUGHT IN. FOR THE EXTINGUISHER SEE NFPA 10 AND IS 15683.

FIRE EXTINGUISHER LINE - PROCESS AND INSTRUMENT SCHEMATIC

NOT TO SCALE - TAGS ONLY, NO PROCESS VALUES

LEGEND

- PUMP
- MOTOR
- HAND VALVE
- CHECK VALVE
- PRESSURE REGULATOR
- RELIEF VALVE
- STRAINER OR FILTER
- BLOWER
- INSTRUMENT (TAG) — XX-1
- VESSEL
- PROCESS LINE
- SIGNAL

HOLDS AND RELEASES

CAUSE	EFFECT
ZS-1 GUARD DOOR OPEN	STOP TP-1, RELEASE PRESSURE
PT-1 PRESSURE ABOVE LIMIT	STOP TP-1, ALARM
AT-2 AIR NOT AS DRY AS AT-1	NO RELEASE TO FILL
WT-1 MASS OFF THE MARK	NO RELEASE TO CHARGE
PT-2 CHARGE ABOVE LIMIT	STOP CHARGING, ALARM
WT-2 GROSS MASS OFF THE MARK	HOLD, DO NOT TAG

REFERENCE CONFIGURATION - NOT FOR CONSTRUCTION

NEOMETRIX DEFENCE LIMITED
ENGINEERED IN NOIDA - INDIA

FIRE EXTINGUISHER SERVICE LINE - REFERENCE CONFIGURATION

PROCESS AND INSTRUMENT SCHEMATIC

TEST CELL, DRYING, FILL AND CHARGE STATIONS

DWG NO	SCALE @ A3	SHEET	REV
NMX-FES-86-001	NTS	1 OF 1	A
DATE	UNITS	DRAWN	STATUS
02-11-2026	TAGS ONLY	NMX-DO	REFERENCE