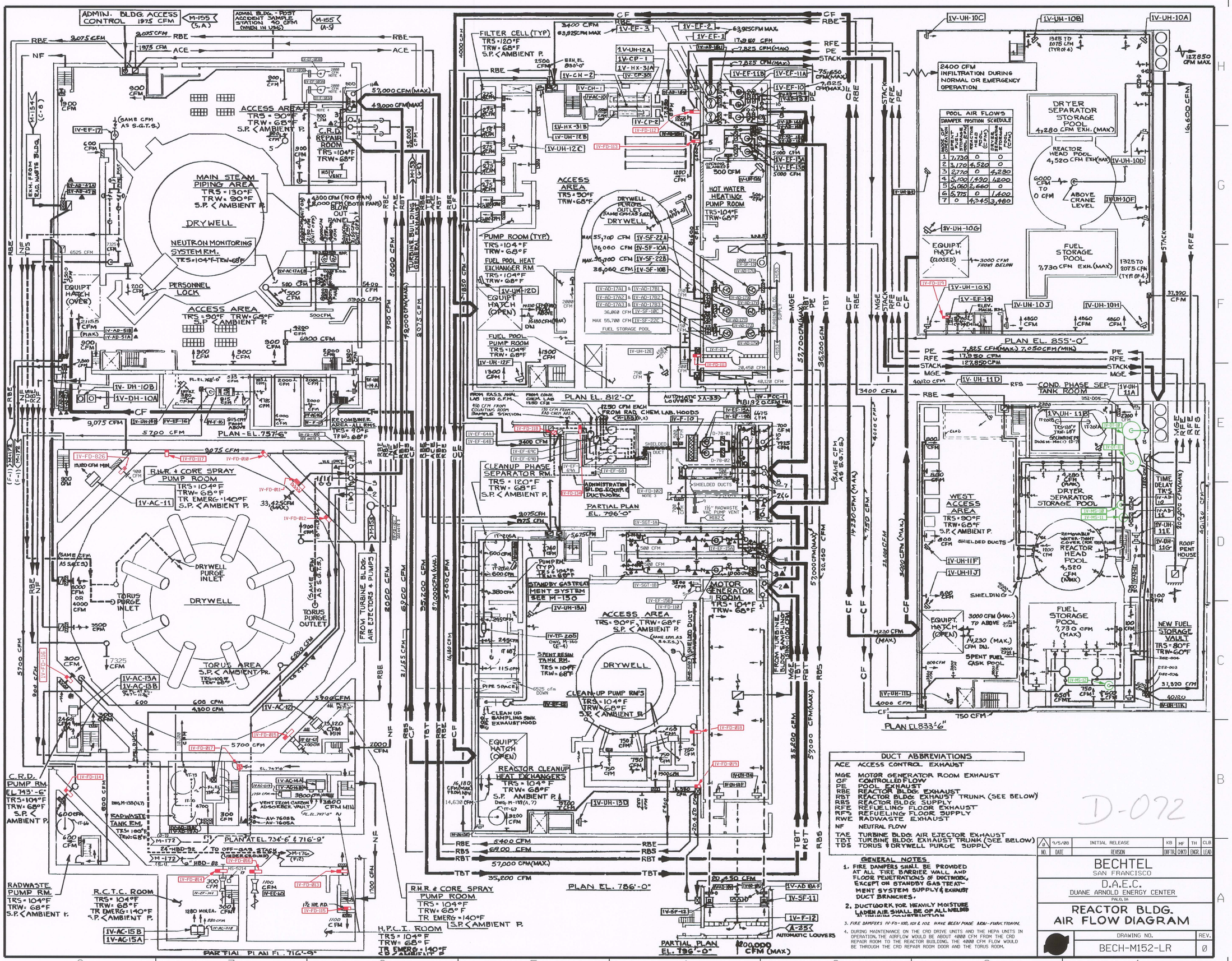

DUCT ABBREVIATIONS

ACE	ACCESS CONTROL EXHAUST
MGE	MOTOR GENERATOR ROOM EXHAUST
CF	CONTROLLED FLOW
PE	POOL EXHAUST
RBE	REACTOR BLDG. EXHAUST
RBT	REACTOR BLDG. EXHAUST TRUNK (SEE BELOW)
RBS	REACTOR BLDG. SUPPLY
RFE	REFUELING FLOOR EXHAUST
RFS	REFUELING FLOOR SUPPLY
RWE	RADWASTE EXHAUST
NF	NEUTRAL FLOW
TAE	TURBINE BLDG. AIR EJECTOR EXHAUST
TBT	TURBINE BLDG. EXHAUST TRUNK (SEE BELOW)
TDS	TORUS ↓DRYWELL PURGE SUPPLY

GENERAL NOTES

1. FIRE DAMPERS SHALL BE PROVIDED AT ALL FIRE BARRIER WALL AND FLOOR PENETRATIONS OF DUCTWORK, EXCEPT ON STANDBY GAS TREATMENT SYSTEM SUPPLY & EXHAUST DUCT BRANCHES.
2. DUCTWORK FOR HEAVILY MOISTURE LADEN AIR SHALL BE OF ALL WELDED CONSTRUCTION.
3. FIRE DAMPERS 1V-FD-100, 101 & 102 HAVE BEEN MADE NON-FUNCTIONAL.
4. DURING MAINTENANCE ON THE CRD DRIVE UNITS AND THE HEPA UNITS IN OPERATION, THE AIRFLOW WOULD BE ABOUT 4000 CFM FROM THE CRD REPAIR ROOM TO THE REACTOR BUILDING. THE 4000 CFM FLOW WOULD BE THROUGH THE CRD REPAIR ROOM DOOR AND THE TORUS ROOM.

LR NOTES:

1. THIS REACTOR BUILDING AIR FLOW DIAGRAM IS ONLY USED TO DEPICT FIRE DAMPERS ANALYZED TO BE IN THE SCOPE OF LICENSE RENEWAL PER LRAM 13.01, AND VENTILATION DRAIN TANKS AND MOISTURE SEPARATORS IN THE SCOPE OF LICENSE RENEWAL PER LRAM 34.00. ADDITIONAL REACTOR BUILDING VENTILATION COMPONENTS WITHIN THE SCOPE OF LICENSE RENEWAL ARE DEPICTED ON THE DRAWINGS SPECIFIED IN LRAM 34.00.

D-072

LR LEGEND:

- COMPONENTS IN SCOPE PER 10CFR54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 54.21
- COMPONENTS NOT SUBJECT TO AMR
- COMPONENTS IN SCOPE PER 10CFR54.4(a)(2) AND SUBJECT TO AMR PER 54.21
- SYSTEM BOUNDARY INTERFACE
  - 13.01 FIRE PROTECTION
  - 34.00 REACTOR BUILDING HVAC

NO.	DATE	REVISION	DRFTR	CHKD	ENGR.	LEAD
0	9/5/08	INITIAL RELEASE	KB	MF	TH	CLB

BECHTEL
SAN FRANCISCO

D.A.E.C.
DUANE ARNOLD ENERGY CENTER
PALO, IA

REACTOR BLDG. AIR FLOW DIAGRAM

DRAWING NO. BECH-M152-LR REV. 0

BASE P&ID REV 32