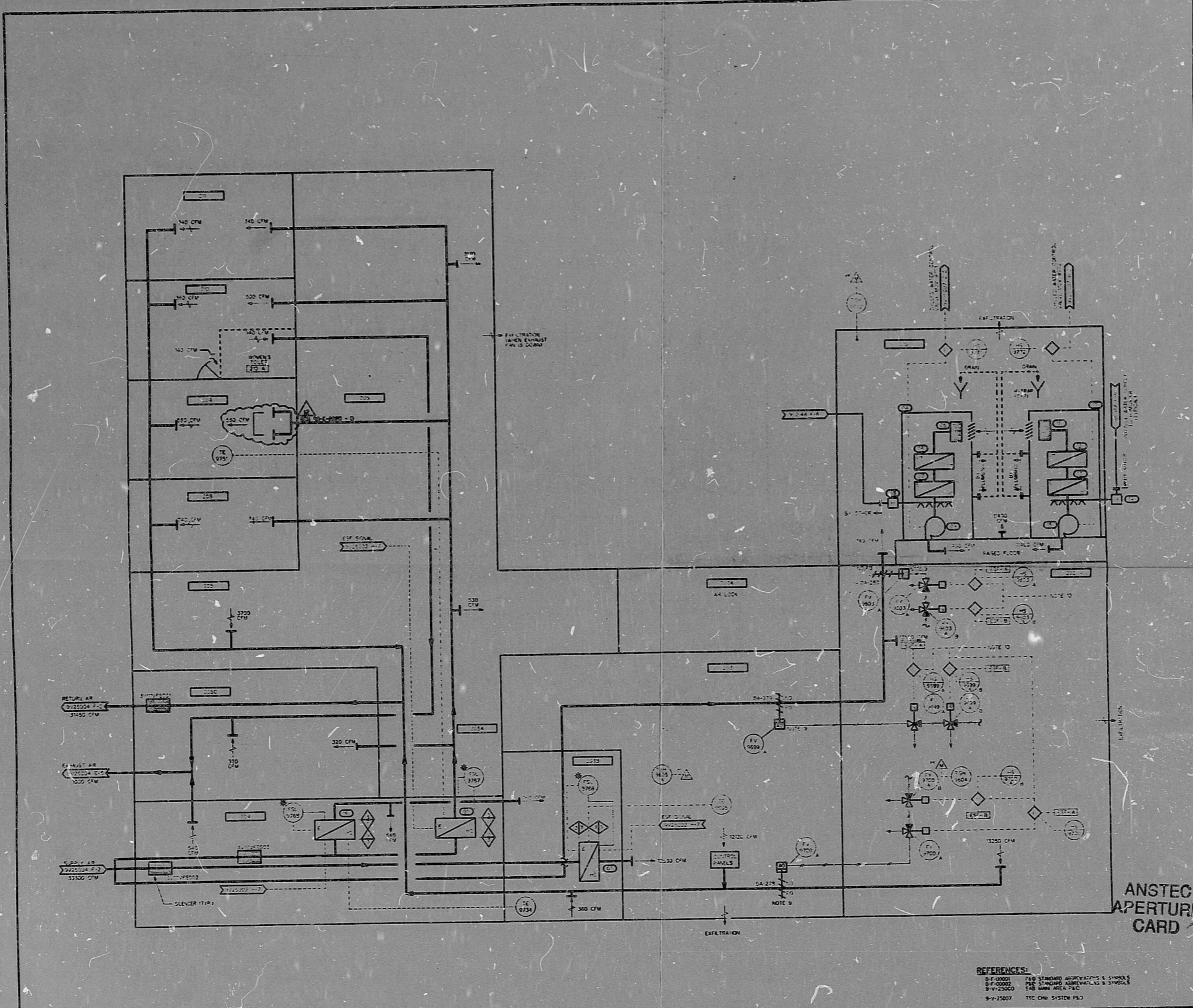


30  
29  
28  
27  
26  
25  
24  
23  
22  
21  
20  
19  
18  
17  
16  
15  
14  
13  
12  
11  
10  
9  
8  
7



| EQUIPMENT NUMBERING INDEX |                  |                |
|---------------------------|------------------|----------------|
| NO.                       | EQUIPMENT NUMBER | DESCRIPTION    |
| 01                        | 211              | HEAT EXCHANGER |
| 02                        | 212              | HEAT EXCHANGER |
| 03                        | 213              | HEAT EXCHANGER |
| 04                        | 214              | HEAT EXCHANGER |
| 05                        | 215              | HEAT EXCHANGER |
| 06                        | 216              | HEAT EXCHANGER |
| 07                        | 217              | HEAT EXCHANGER |
| 08                        | 218              | HEAT EXCHANGER |
| 09                        | 219              | HEAT EXCHANGER |
| 10                        | 220              | HEAT EXCHANGER |
| 11                        | 221              | HEAT EXCHANGER |
| 12                        | 222              | HEAT EXCHANGER |
| 13                        | 223              | HEAT EXCHANGER |
| 14                        | 224              | HEAT EXCHANGER |
| 15                        | 225              | HEAT EXCHANGER |
| 16                        | 226              | HEAT EXCHANGER |
| 17                        | 227              | HEAT EXCHANGER |
| 18                        | 228              | HEAT EXCHANGER |
| 19                        | 229              | HEAT EXCHANGER |
| 20                        | 230              | HEAT EXCHANGER |
| 21                        | 231              | HEAT EXCHANGER |
| 22                        | 232              | HEAT EXCHANGER |
| 23                        | 233              | HEAT EXCHANGER |
| 24                        | 234              | HEAT EXCHANGER |
| 25                        | 235              | HEAT EXCHANGER |
| 26                        | 236              | HEAT EXCHANGER |
| 27                        | 237              | HEAT EXCHANGER |
| 28                        | 238              | HEAT EXCHANGER |
| 29                        | 239              | HEAT EXCHANGER |
| 30                        | 240              | HEAT EXCHANGER |

| ROOM NUMBER INDEX |             |                   |
|-------------------|-------------|-------------------|
| NO.               | ROOM NUMBER | DESCRIPTION       |
| 01                | 201         | CONTROL ROOM      |
| 02                | 202         | RELAY ROOM        |
| 03                | 203         | CONTROL ROOM      |
| 04                | 204         | RELAY ROOM OFFICE |
| 05                | 205         | RELAY ROOM        |
| 06                | 206         | RELAY ROOM        |
| 07                | 207         | RELAY ROOM        |
| 08                | 208         | RELAY ROOM        |
| 09                | 209         | RELAY ROOM        |
| 10                | 210         | RELAY ROOM        |
| 11                | 211         | RELAY ROOM        |
| 12                | 212         | RELAY ROOM        |
| 13                | 213         | RELAY ROOM        |
| 14                | 214         | RELAY ROOM        |
| 15                | 215         | RELAY ROOM        |
| 16                | 216         | RELAY ROOM        |
| 17                | 217         | RELAY ROOM        |
| 18                | 218         | RELAY ROOM        |
| 19                | 219         | RELAY ROOM        |
| 20                | 220         | RELAY ROOM        |
| 21                | 221         | RELAY ROOM        |
| 22                | 222         | RELAY ROOM        |
| 23                | 223         | RELAY ROOM        |
| 24                | 224         | RELAY ROOM        |
| 25                | 225         | RELAY ROOM        |
| 26                | 226         | RELAY ROOM        |
| 27                | 227         | RELAY ROOM        |
| 28                | 228         | RELAY ROOM        |
| 29                | 229         | RELAY ROOM        |
| 30                | 230         | RELAY ROOM        |

NOTES:  
 1. ALL SYSTEMS SHOWN ARE SAFETY CLASS 1 EXCEPT THE MOST CRITICAL SYSTEMS WHICH ARE SAFETY CLASS 2. ALL SAFETY CLASS 2 SYSTEMS ARE TO BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE REGULATORY AGENCIES.  
 2. ALL AIR FLOW CPM SHOWN AT STAGNATION POINTS UNLESS OTHERWISE NOTED.  
 3. ALL EQUIPMENT GRADES SHOWN ARE 2' TOE.  
 4. ALL DRAFTER NOTES SHOWN HAVE THE DRAFTER'S SIGNATURE.  
 5. ROOM NOTES ARE AS SHOWN ON ARCHITECTURAL DRAWINGS.  
 6. FOR UNIT NO. 2 ALL EQUIPMENT NO. PREFIXES SHALL BE 200-XXXX.  
 7. ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATION "T".  
 8. ALL INSTRUMENTS ON THIS P&ID HAVE OPERATOR GROUP "R".  
 9. THESE DRAWINGS ARE INTERLOCKED WITH FIRE DETECTION SYSTEM TO CLOSE OFF VALVE REACTION.  
 10. VALVE SIGNAL FROM FIRE PROTECTION PANEL ZLP-917 CLOSURE DAMPER ON VALVE REACTION.  
 11. OBTAINED.  
 12. FOR ACTUAL AIR FLOW QUANTITIES, SEE THE AS-BUILT DRAWING SHOWN ON THE FORM AND DRAINAGE REPORT CMT 1P-80828-24 FOR UNIT 2.

ANSTEC APERTURE CARD

REFERENCES:  
 1. ASHRAE 55-1982  
 2. ASHRAE 62-1987  
 3. ASHRAE 90.1-1989  
 4. ASHRAE 110-1989  
 5. ASHRAE 154-1989  
 6. ASHRAE 189.1-1999  
 7. ASHRAE 189.2-1999  
 8. ASHRAE 189.3-1999  
 9. ASHRAE 189.4-1999  
 10. ASHRAE 189.5-1999  
 11. ASHRAE 189.6-1999  
 12. ASHRAE 189.7-1999  
 13. ASHRAE 189.8-1999  
 14. ASHRAE 189.9-1999  
 15. ASHRAE 189.10-1999  
 16. ASHRAE 189.11-1999  
 17. ASHRAE 189.12-1999  
 18. ASHRAE 189.13-1999  
 19. ASHRAE 189.14-1999  
 20. ASHRAE 189.15-1999  
 21. ASHRAE 189.16-1999  
 22. ASHRAE 189.17-1999  
 23. ASHRAE 189.18-1999  
 24. ASHRAE 189.19-1999  
 25. ASHRAE 189.20-1999  
 26. ASHRAE 189.21-1999  
 27. ASHRAE 189.22-1999  
 28. ASHRAE 189.23-1999  
 29. ASHRAE 189.24-1999  
 30. ASHRAE 189.25-1999  
 31. ASHRAE 189.26-1999  
 32. ASHRAE 189.27-1999  
 33. ASHRAE 189.28-1999  
 34. ASHRAE 189.29-1999  
 35. ASHRAE 189.30-1999

| NO. | DATE     | REVISION                | BY  | CHK | REV | DATE     | NO. | DATE | REVISION | BY | CHK | REV | DATE |
|-----|----------|-------------------------|-----|-----|-----|----------|-----|------|----------|----|-----|-----|------|
| 12  | 10/15/99 | ISSUED FOR CONSTRUCTION | JPM | JR  | JR  | 10/15/99 | 1   |      |          |    |     |     |      |
| 11  | 09/22/99 | ISSUED FOR CONSTRUCTION | JPM | JR  | JR  | 09/22/99 | 2   |      |          |    |     |     |      |
| 10  | 09/22/99 | ISSUED FOR CONSTRUCTION | JPM | JR  | JR  | 09/22/99 | 3   |      |          |    |     |     |      |
| 9   | 09/22/99 | ISSUED FOR CONSTRUCTION | JPM | JR  | JR  | 09/22/99 | 4   |      |          |    |     |     |      |
| 8   | 09/22/99 | ISSUED FOR CONSTRUCTION | JPM | JR  | JR  | 09/22/99 | 5   |      |          |    |     |     |      |

HOUSTON LIGHTING & POWER COMPANY  
 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION

PIPING AND INSTRUMENTATION DIAGRAM - HVAC CONTROL ROOM ENVELOPE AIR DISTRIBUTION  
 SCALE: NONE  
 DWG. NO.: 5V119V25005#2  
 REV. 12

30:1



5V119V25005#2

09/22/1997

12

FJA726L21



9710060183

PDR RIDS

9710060183

