



- NOTES**
1. REFER TO OTHER DRAWINGS TO PREVENT EXCESSIVE PUMP RUN-DOWN.
 2. THE SUMP REPRESENTATION IS NOT TO BE USED IN CONSTRUCTION.
 3. REFER TO THE SUMP DESIGN CRITERIA FOR SUMP CONSTRUCTION.
 4. LOCATE CONTAINMENT VALVE ISOLATION VALVE ABOVE LOCATION OF PUMP ISOLATION VALVE.
 5. EQUIPPED IN ACCORDANCE WITH SAFETY CLASS 1.
 6. REFER TO THE SUMP DESIGN CRITERIA FOR CONTAINMENT ISOLATION.
 7. LOCATE PUMP CONNECTION AS CLOSE AS POSSIBLE TO THE PUMP. PROVIDE PIPING TO FACILITATE DRAINAGE OF LINE.
 8. PROVIDE ISOLATION VALVE IN LINE AT SUMP THAT COULD BE USED TO ISOLATE PUMP DURING LEAK TEST.
 9. ALL INSTRUMENTS ON THIS PUMP AND SYSTEM INDICATOR TO BE USED TO MONITOR SUMP.
 10. ALL INSTRUMENTS ON THIS SUMP TO BE SEPARATE GROUP IDENTIFICATION TO BE USED TO MONITOR SUMP.
 11. FOR SPECIAL VALVE INSTRUMENTS, CONSULT THE INSTRUMENTATION AND INSTRUMENTATION IDENTIFICATION DRAWING FOR IDENTIFICATION NUMBER.

ANSTEC
APERTURE
CARD

NO.		DATE	REVISION	BY	CHK	REV	DATE	NO.	DATE	REVISION	BY	CHK	REV	DATE	NO.	DATE
1	1	09/22/97	ISSUED FOR CONSTRUCTION													

HOUSTON LIGHTING & POWER COMPANY

PIPING AND INSTRUMENTATION DIAGRAM
SAFETY INJECTION SYSTEM

SCALE: 1" = 10'-0"
DATE: 09/22/97
NO. 5N129F05015 #2
REV. 14

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PDR RIDS

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