

JAN 25 1978

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| Docket file | H. Smith |
| NRC PDR | bcc: |
| LWR-1 file | J. Buchanan, NSIC |
| D. Vassallo | T. Abernathy, TIC |
| F. Williams | ACRS (16) |
| J. Stolz | |
| D. Allison | S. Israel |
| E. Hylton | G. Kelly |
| ELD | T. Novak |

Docket Nos: 50-275
and 50-323

Pacific Gas and Electric Company
ATTN: Mr. John C. Morrissey
Vice President & General Counsel
77 Beale Street
San Francisco, California 94106

Gentlemen:

SUBJECT: OVERPRESSURE TRANSIENT PROTECTION FOR THE LONG TERM - DIABLO
CANYON UNITS 1 AND 2

As indicated in Supplement No. 6 to our Safety Evaluation Report for Diablo Canyon, we have found your interim overpressure protection system to be acceptable for initial operation of Unit 1 (until the first refueling shutdown). We understand that in the near future you will submit a description of the long-term systems to be employed for Unit 1 after the first refueling and to be employed for Unit 2 prior to initial operation.

Our criteria and guidance for submitting this information are enclosed. We trust it will be useful in preparing the submittal. Please contact us if you have any questions or comments on this subject.

Sincerely,

Original Signed by
John F. Stolz
John F. Stolz, Chief
Light Water Reactors Branch No. 1
Division of Project Management

Enclosure:
As stated

cc: See next page

| | | | | | | |
|-----------|-----------------|-----------------|--|--|--|-----------|
| OFFICE > | LWR-1 <i>DA</i> | LWR-1 <i>JS</i> | | | | |
| SURNAME > | DAllison:t1B | J. Stolz | | | | <i>me</i> |
| DATE > | 1/24/78 | 1/25/78 | | | | <i>JS</i> |

CONFIDENTIAL
U.S. DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D.C. 20535

DATE: 10/10/68
PAGE: 3

MEMORANDUM FOR THE DIRECTOR
FROM: SAC, [illegible]
SUBJECT: [illegible]

(Continued)

On 10/10/68, [illegible] advised that [illegible] had been [illegible] by [illegible] on 10/10/68.

[illegible] advised that [illegible] had been [illegible] by [illegible] on 10/10/68. [illegible] advised that [illegible] had been [illegible] by [illegible] on 10/10/68. [illegible] advised that [illegible] had been [illegible] by [illegible] on 10/10/68.

[illegible] advised that [illegible] had been [illegible] by [illegible] on 10/10/68. [illegible] advised that [illegible] had been [illegible] by [illegible] on 10/10/68. [illegible] advised that [illegible] had been [illegible] by [illegible] on 10/10/68.

END

Special Agent in Charge
[illegible]
[illegible]
[illegible]
[illegible]

10/10/68
[illegible]

10/10/68

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ATTN: Mr. John C. Morrissey
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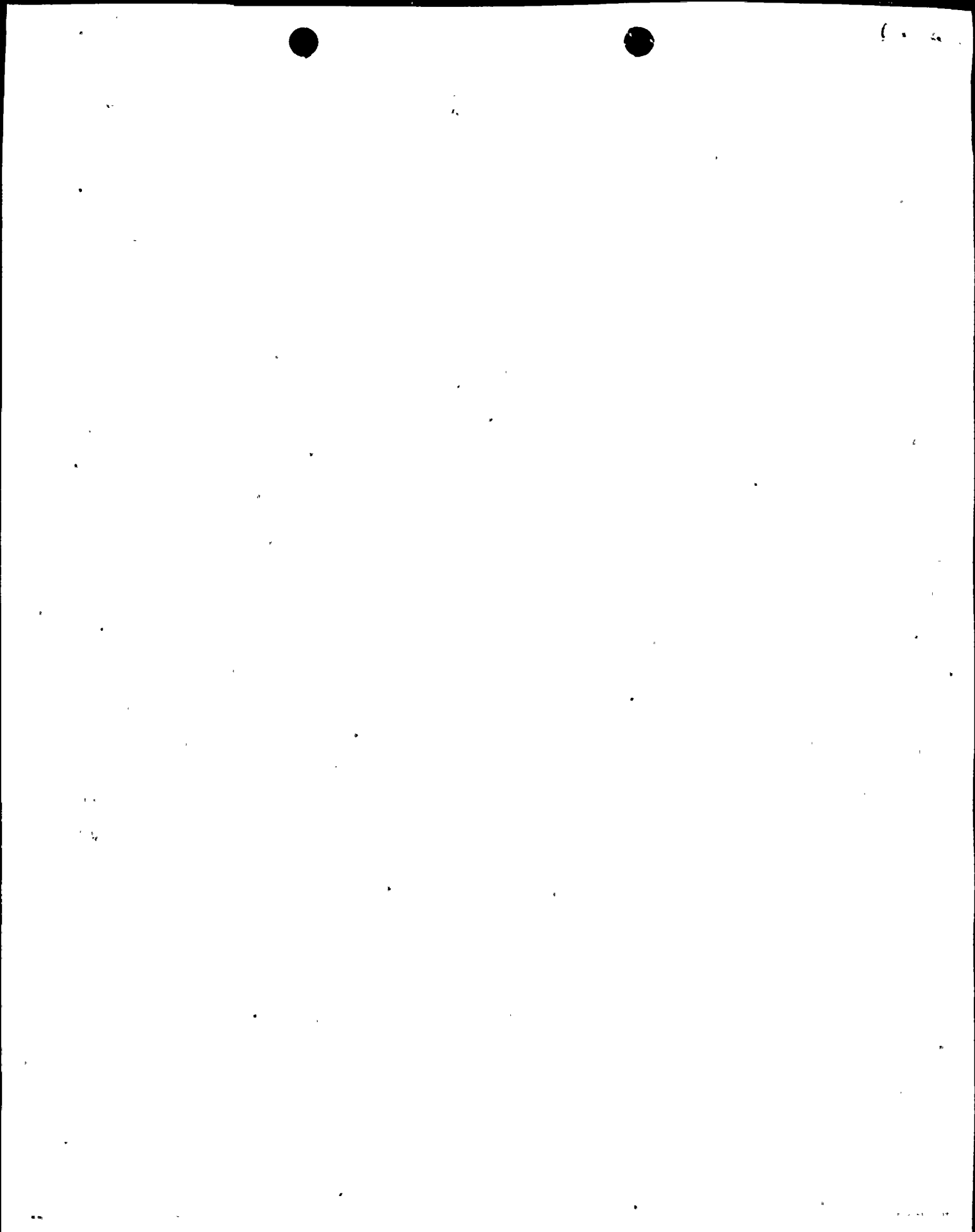
Sincerely,

Original Signed by
John F. Stolz
John F. Stolz, Chief
Light Water Reactors Branch No. 1
Division of Project Management

Enclosure:
As stated

cc: See next page

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|---------|-----------------|-----------------|--|--|--|--|
| OFFICE | LWR-1 <i>JF</i> | LWR-1 <i>JF</i> | | | | |
| SURNAME | DAllison:tlb | J. Stolz | | | | |
| DATE | 1/24/78 | 1/25/78 | | | | |



STARTUP AND SHUTDOWN OVERPRESSURE PROTECTION

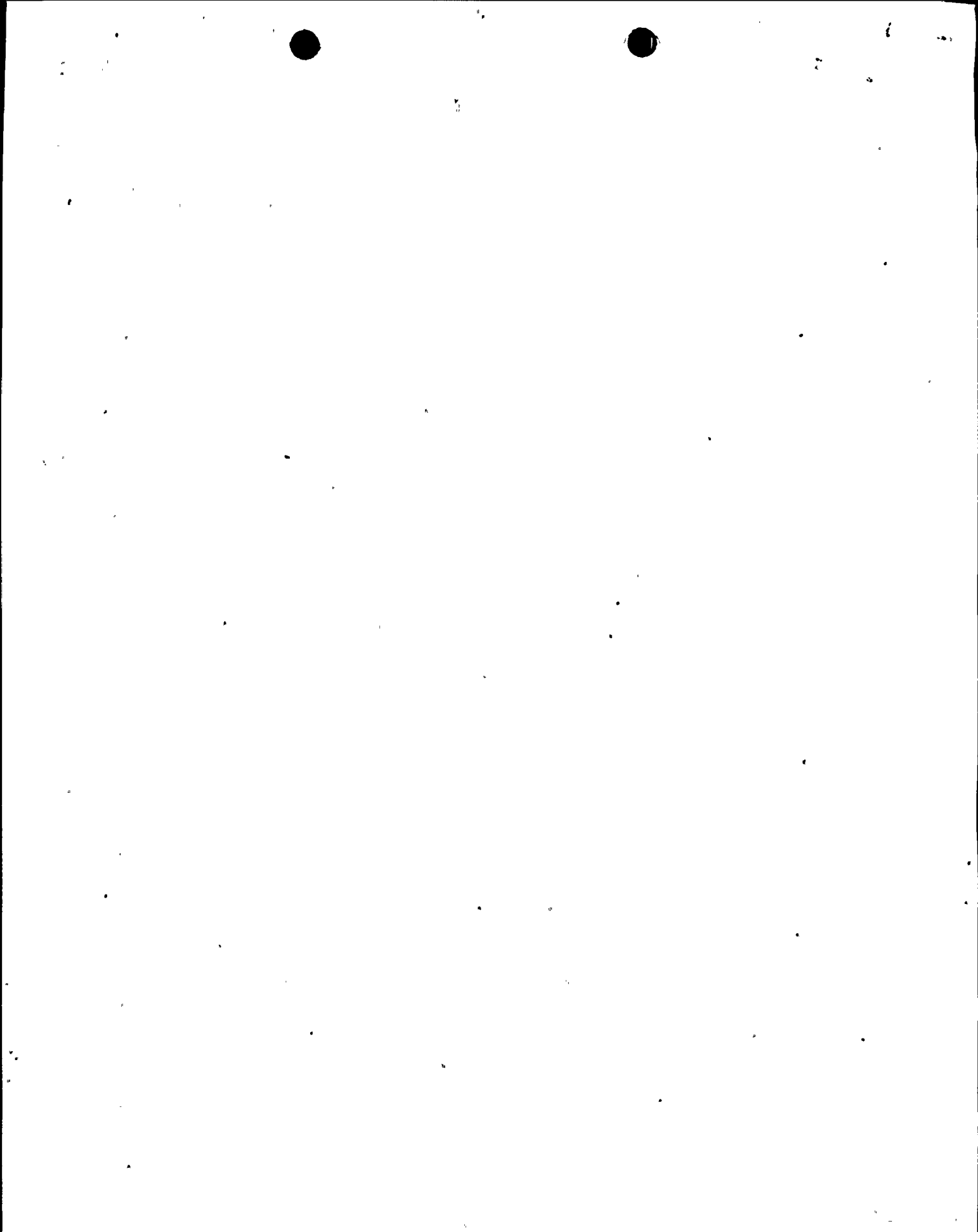
Over the past few years, pressure transients have occurred during startup and shutdown that have or could have violated Appendix G pressure-temperature limits for the pressure vessel. As a result, the staff requires that an overpressure protection system be provided to prevent reactor vessel pressures in excess of those allowed in Appendix G. Specific criteria for system performance are:

- 1) Operator Action: No credit can be taken for operator action for 10 minutes after the operator is aware of a transient.
- 2) Single Failure: The system must be designed to relieve the pressure transient given a single failure in addition to the failure that initiated the pressure transient.
- 3) Testability: The system must be testable on a periodic basis consistent with the system's employment.
- 4) Seismic and IEEE 279 Criteria: Ideally, the system should meet seismic Category I and IEEE 279 criteria. The basic objective is that the system should not be vulnerable to a common failure that would both initiate a pressure transient and disable the overpressure mitigating system. Such events as loss of instrument air and loss of offsite power must be considered.

An alarm must be provided to monitor the position of the pressurizer relief valve isolation valves, along with the low set point enabling switch, to assure that the overpressure mitigating system is properly aligned for shutdown conditions.

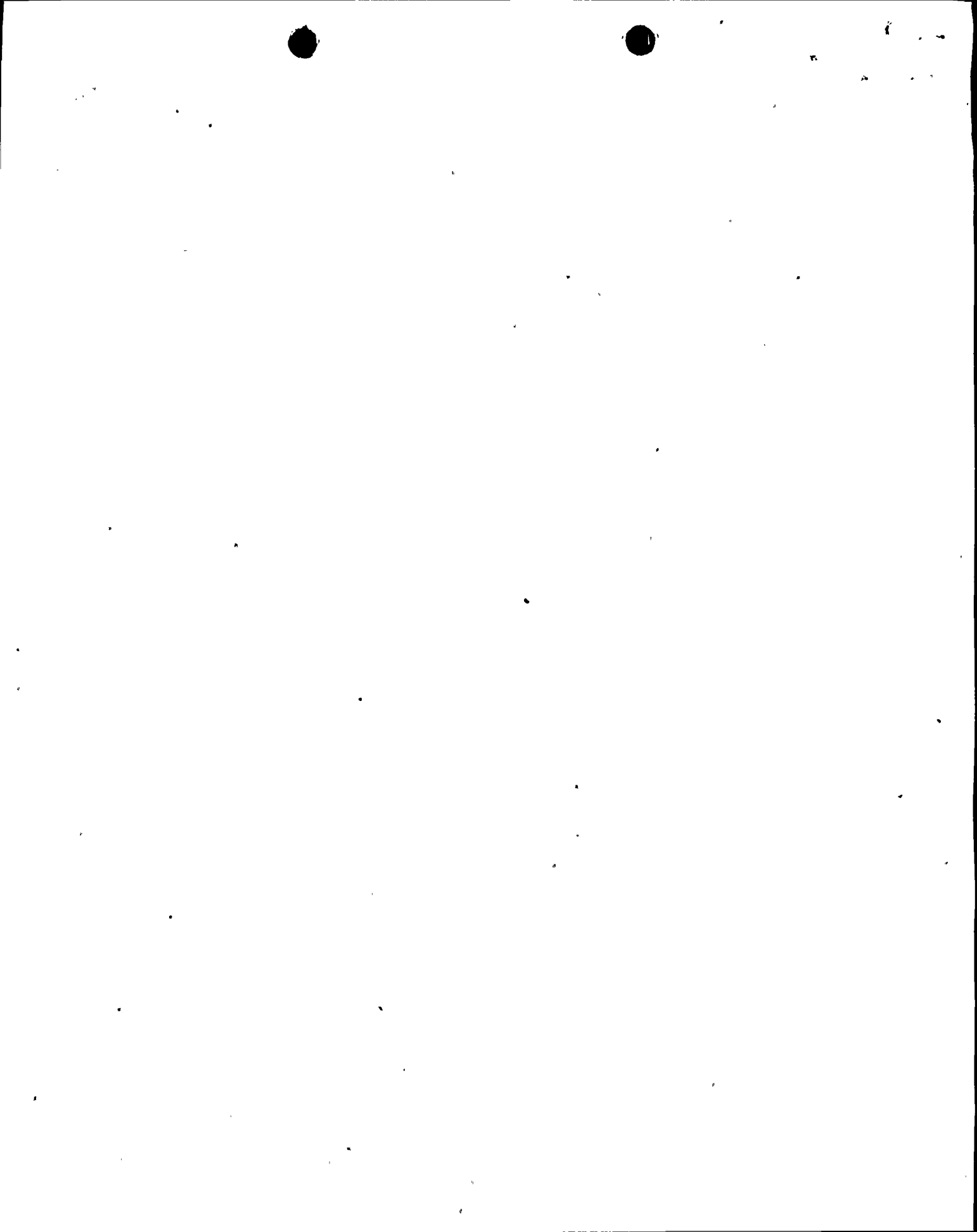
In demonstrating that the protection system meets these criteria, the applicant should include the following information in his submittal:

1. Identify and justify the most limiting pressure transients caused by mass input and heat input.
2. Show that overpressure protection is provided (do not violate Appendix G limits) over the range of conditions applicable to shutdown/heatup operation.
3. Identify and justify that the equipment will meet pertinent parameters assumed in the analyses. (e.g. valve opening times, signal delay, valve capacity)



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4. Provide a description of the system including relevant P&I drawings and electrical schematics.
5. Discuss how the system meets the criteria.
6. Discuss all administrative controls required to implement the protection system.



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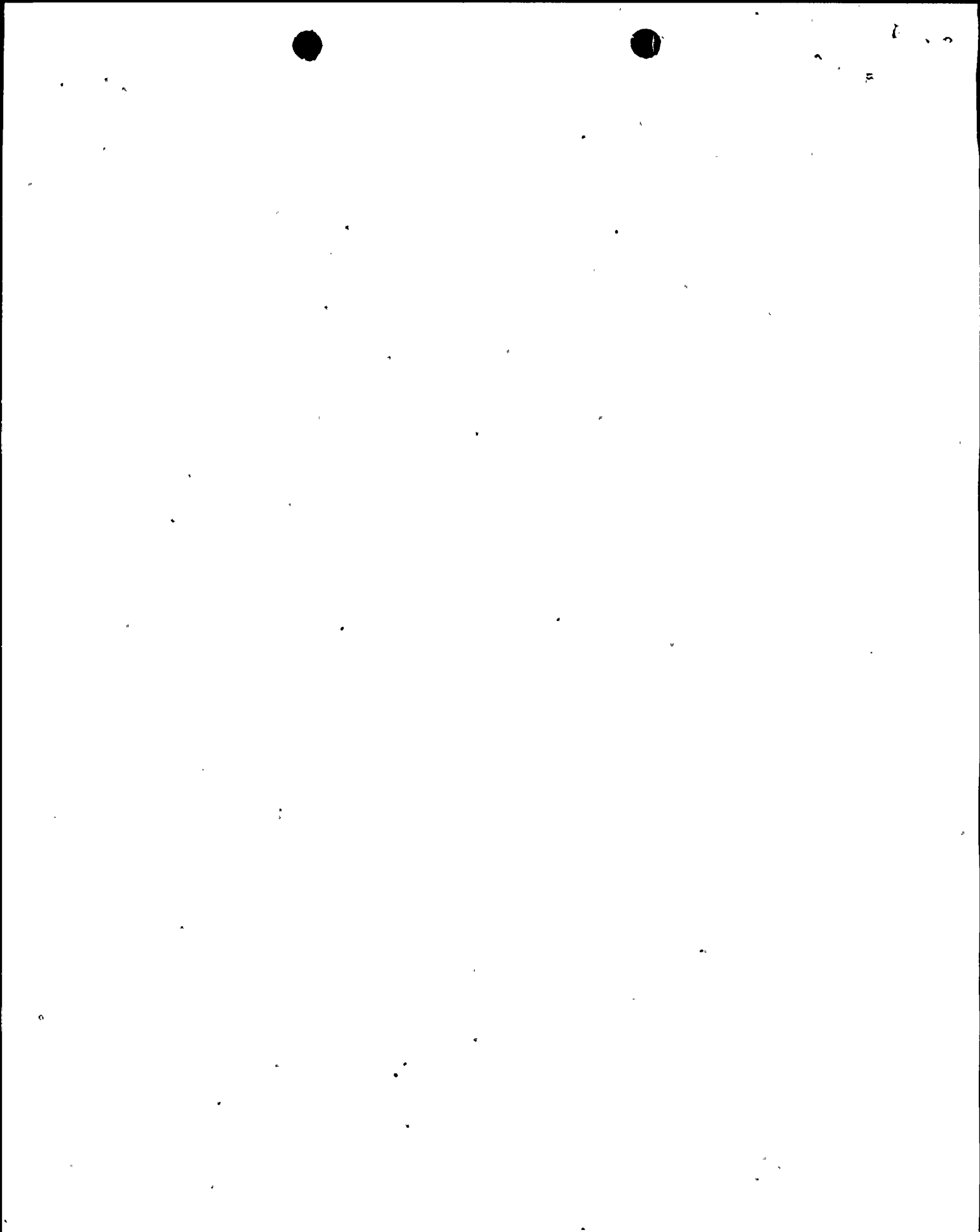
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