

Decision No. 86704

ORIGINAL

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Investigation on the Commission's }
own motion into the safety }
appliances and procedures of the }
SAN FRANCISCO BAY AREA RAPID }
TRANSIT DISTRICT }

Case 9867
(Filed February 4, 1975)

SIXTH INTERIM OPINION

Paragraph 1.a and 1.e of Decision 86393, dated September 14, 1976, ordered that: "BART shall modify its procedures to insure the following:

"a. No equipment or components of equipment that affect the safety of the passengers or employees shall be installed, nor shall any modifications be made to existing equipment unless two copies of the following plans and specifications for such construction and/or modifications have been filed with the Commission not less than twenty days prior to the date of installation or modification of the equipment:

- "(1) Function description and functional block diagram.
- "(2) Summary and conclusions of the results of a safety and reliability analysis that shall be on file in BART's safety department consisting of, as a minimum, a failure modes and effects analysis and a worst case analysis, taking into account all environmental conditions; a component stress analysis; and a computed failure rate. The District may request the Commission to waive the requirements of this subparagraph if alternate analyses that are better suited to a particular situation are presented in detail.

and

"e. Not less than twenty days prior to the start of each safety and reliability analysis, BART shall file with the Commission:

- "(1) An outline of the proposed format and scope for each safety and reliability analysis that the District has been ordered to file by paragraph 1.a above together with a schedule for the progress and completion of each analysis."

The purpose of the above requirements was to allow the Commission staff the time and opportunity to review proposed safety analyses and to monitor the installation and testing of modifications. It is apparent that, in some instances, the staff will be able to expedite the review of plans, specifications, analyses and test data and either or both of the 20 day filing requirements may be unnecessary. In such instances, it would be inappropriate and unwarranted to delay installation and modification of equipment that is needed to improve safety and reliability. Therefore, the staff recommends that whenever it has determined that the purpose of paragraphs 1.a and/or 1.e can be served in less time than the 20 day requirement, it (the staff) should be required to notify BART, in writing, that it may proceed with the construction and modification and/or analysis without delay.

BART has advised the staff that it has no objections to these recommendations.

We find the staff recommendations reasonable and required to insure the safety of the public and BART's employees.

We conclude that the staff recommendations should be implemented as hereafter ordered. The effective date of this order should be the date hereof to expedite the inauguration of these safety requirements.

SIXTH INTERIM ORDER

IT IS ORDERED THAT:

Paragraphs 1.a and 1.e of Decision 86393 are hereby amended to read as follows:

1. a. No equipment or components of equipment that affect the safety of the passengers or employees shall be installed, nor shall any modifications be made

to existing equipment unless two copies of the following plans and specifications for such construction and/or modifications have been filed with the Commission not less than twenty days prior to the date of installation or modification of the equipment:

- (1) Function description and functional block diagram.
 - (2) Summary and conclusions of the results of a safety and reliability analysis that shall be on file in BART's Safety Department consisting of, as a minimum, a failure modes and effects analysis and a worst case analysis, taking into account all environmental conditions; a component stress analysis; and a computed failure rate. The District may request the Commission to waive the requirements of this subparagraph if alternate analyses that are better suited to a particular situation are presented in detail.
 - (3) Whenever the review by the Commission staff of any plans and/or specifications for construction and/or modifications is completed in less than 20 days after filing, the staff shall notify BART, in writing, that it may proceed with the construction and modification without delay.
1. e. Not less than twenty days prior to the start of each safety and reliability analysis, BART shall file with the Commission:
- (1) An outline of the proposed format and scope for such safety and reliability analysis that the District has been ordered to file by paragraph 1.a above together with a schedule for the progress and completion of each analysis.
 - (2) The name of the person responsible for the performance of each analysis.
 - (3) Whenever the Commission staff completes its review of the outline and schedule in less than 20 days, the staff shall notify BART, in writing, that it may proceed with the analysis without delay.

In all other respects, the requirements of Decision 86393 shall remain in full force and effect.

The effective date of this order is the date hereof

Dated at San Francisco, California, this 30th day
of NOVEMBER, 1976.

William J. ... President
James L. ...
Robert ... Commissioners

Commissioner D. W. Holmes, being necessarily absent, did not participate in the disposition of this proceeding.