

BOILER ECONOMY

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Boiler Economy by Travelers Indemnity Company

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TRAVELERS INDEMNITY COMPANY

**BOILER
ECONOMY**

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The
Travelers Indemnity Company
HARTFORD, CONNECTICUT

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PREFACE.

The general subject of boiler economy is too large to be treated fully and exhaustively in a pamphlet, and yet it is quite possible to compress a considerable number of useful suggestions into a fairly small space. That is what we have tried to do in the present publication, and we shall feel well repaid if the boiler owner finds that it throws a little light upon certain of his problems, and helps in some small measure to keep down his operating expenses. Further information upon any of the points that are covered, or upon any other topic relating to economy or safety in the operation of steam boilers, will be cheerfully furnished to our assured upon request.

THE TRAVELERS INDEMNITY COMPANY employs a large force of expert inspectors, whose knowledge and experience are always at the command of our assured; and the services that these men render are worth far more than the cost of the insurance. Problems that require special study, and call for more time and consideration than any individual visiting inspector can devote to them, are laid before the staff of the Engineering and

Inspection Division of the Company, at its Home Office in Hartford, Connecticut. The best engineering skill in the country is thus made available, free of charge, to the owner of any boiler plant, large or small.

The facilities of the TRAVELERS' Engineering and Inspection Division are broad and complete in every respect. Engineers of national reputation are at its head, and under their direction expert services of every needful kind are rendered by well organized departments, in charge of competent men who are admitted authorities in their own special lines.

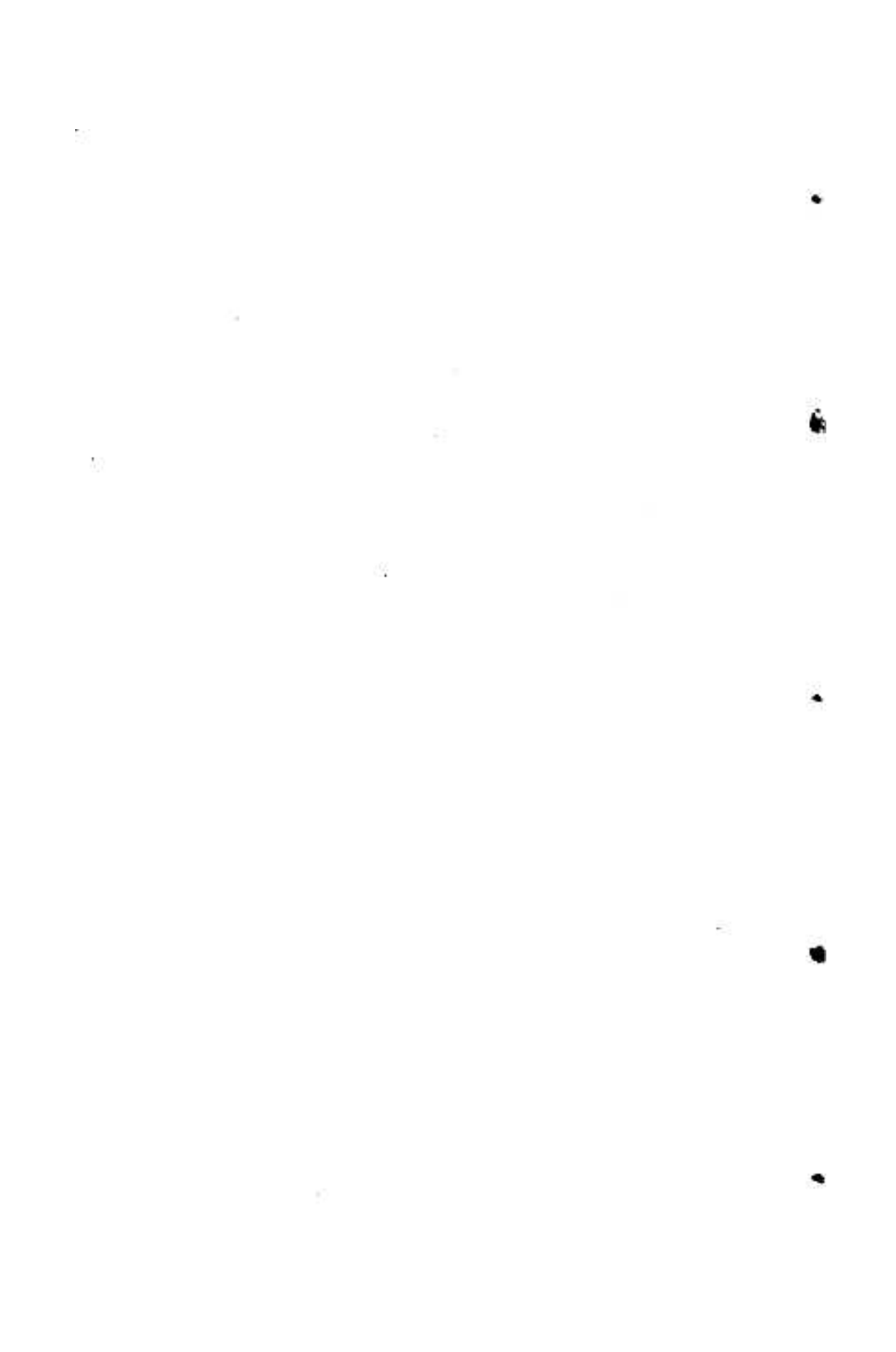
For patrons who contemplate putting in new boilers, or changing their present boiler plants in other ways, THE TRAVELERS is prepared to furnish practical specifications and plans, showing the most approved designs, and the best methods for executing the work in all its details.

THE TRAVELERS also maintains an efficient chemical department, including a well-equipped laboratory which is constantly and exclusively engaged in analyzing troublesome feed waters. Recommendations, based upon the conditions disclosed by these analyses, are returned to the boiler owners, who are thereby enabled to treat the water effectively and scientifically, so as to either avoid the formation of scale, or cause it to be deposited in a less objectionable form.

In a word, THE TRAVELERS is rendering to its patrons services that are unequalled elsewhere in any

respect,—whether in the making of inspections, in the giving of valuable counsel tending to increase the efficiency of the plant, in the rendering of special services of every kind to meet the thousand-and-one unclassified emergencies and difficulties that arise, or in the prompt and generous payment of the losses that inevitably occur from time to time, despite the greatest care.

THE TRAVELERS INDEMNITY COMPANY,
Hartford, Connecticut.



Boiler Economy

1. **INTRODUCTORY:** In the following pages we have adhered as closely as practicable to the subject of boiler *economy*. The question of *safety* is comparatively distinct, and it is so large that it will be treated separately in a subsequent pamphlet of this series. We have nevertheless called attention, herein, to a few sources of danger, when these are related more or less intimately to the particular aspect of economy under consideration at the time, or when we have feared that the omission of a word or two of caution might be construed to imply that no serious danger exists.

The discussion of deterioration has also been deferred, in large measure, because this subject is related to safety more closely than to economy. Deterioration certainly has an economical phase, however, because it is a source of running or cumulative expense, which may be lessened or increased, within certain limits, by comparatively small variations in practice. We have therefore considered some few of its aspects.

We have touched upon boiler scale more fully than a strict interpretation of the title of this pamphlet would