



THERMAL INSULATION
MANUFACTURERS ASSOCIATION
7 Kirby Plaza, Mt. Kisco, N. Y. 10549
914/241-2284



MINUTES

COMMERCIAL-MECHANICAL POWER AND PROCESS COMMITTEE MEETING

Chicago, ILL

May 14, 15, 1975

The Meeting was called to order at 6:00 P.M. with the following in attendance:

W.W.Pitkin, Chairman
W. Bartlett
P.P.Buche
E.F.Cusick, Jr.
D.M.Dierson
J.Euber *
D.C.Glosser
L.Hall

W.T.Irwin
T.Oneson
R.S.Parsley
W.S.Rodger
P.Severstrom
L.Solari
J.Baer
J.Barnhart

*May 14, only

It was announced W.S.Rodger would represent "48" Insulations on the Committee.

FINANCIAL STATEMENT

J.M.Barnhart reviewed the Financial Statement as of March 31, 1975 .
Copy attached.

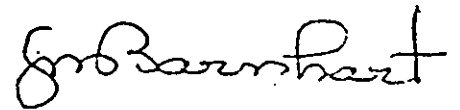
REVIEW of LITERATURE

It was reported that there were 200 ECON I and 4,824 ECON II's on hand.

It was agreed an additional 500 ECON I Manuals should be printed, with no changes. The total cost of the reprint will be approximately \$4,500.

ADJOURNMENT

There being no further business, the meeting was adjourned.

A handwritten signature in cursive script, appearing to read "JMBarnhart".

JMBarnhart
Executive Director

JMB/elb

FEA ENERGY STUDY

York Research has obtained the grant to do the study.

W.W.Pitkin reviewed the FEA-NICA-TIMA meeting of May 14, 1975. TIMA and NICA will assist York to obtain input for the study. York believes they can finish the study in six months.

TIIC

W.W.Pitkin reviewed the activities of the Council. The union has agreed to participate in making the industry filmograph.

ASHRAE 90P

The final draft has not been promulgated. It was reported that Panel 5 had decreased pipe insulation thicknesses approximately $\frac{1}{2}$ " in their latest deliberations.

ADVERTISING PROGRAM

It was agreed that the program did not generate too many sales for the ECON I Manual.

GOVERNMENT COMMITTEE REPORT

L.H.Mills' report was read as follows:

Government Agency Guide Spec Status

GSA spec PBS - 1516 has been revised and is being printed. Copies will be forwarded for distribution when available. New spec includes All Service Jackets and ASHRAE 90P thicknesses for hot pipe and equipment.

Coprs of Engineers amendment to guide spec CE 301.06 has been issued to their district offices. Copy of amendment attached. Amendment clarifies the use of All Service Jackets.

Veterans Admin. and Corps of Engineers specs are being held up pending publication of ASHRAE 90P.

Revision of Fed. Spec. HH-B-100B.

It is requested that action be taken on TIMA Gov't. request of March 13, 1975. Copy attached. A suggested revision that I believe will staisfy our request is to add the following to par. 4.4.4 of HH-B-100B: "Tests shall be made on the side of the jacket or facing which will be exposed after installation. When jackets or facings are supplied factory applied to the insulation, classification whall be obtained for the composite product; jacket or facing adhered to the insulation as it is used in service."

Proposed revisions to HHI-558 and ASTM C-612 will be pursued by the Technical Committee.

May 15, 1975 - 8:00 A.M.

RETROFIT PROGRAM

D.C. Glosser reviewed the program including:

- (a) Overview
- (b) Results and format
- (c) Sensitivity
- (d) Narrative
- (e) Production and cost

As agreed at our New Orleans TIMA Meeting, an adhoc Committee Meeting was held on "RECON" at the OCF Technical Center in Granville, Ohio on March 14, . Those in attendance were:

John Baer - Baer Company
Wynn Irwin - CSG
Don Glosser - OCF
Ton Oneson - OCF

The Committee agreed that TIMA should develop a book of tables from which an industrial user can determine the amount of additional insulation which is economically justified.

The application of additional insulation in an operating facility presents problems not generally encountered in new construction (scaffolding, additional material handling, etc.).

"RECON", as it is currently drafted, allows the industrial user to "pick" from a range of assumptions which he feels is representative of the cost experience in his own plant. Assumptions included are:

installed cost:	Econ I +25% or 50%
energy cost increase:	7%
mid-life:	10 yrs. or 5 yrs.
energy cost:	2.20/m BYU ± 20%

Anticipating that the RECON Booklet will be used primarily by the industrial maintenance engineer, we have tried to make it simple.

To determine the amount of additional insulation which is economically justified, the booklet user does the following:

1. Determine:
 - (a) pipe size
 - (b) thickness of insulation in place
 - (c) service temperature
2. Determine which assumptions are representative of his plant:
 - (a) installed cost - ECON I
+25% or 50%
 - (b) energy cost increase - 7%
 - (c) remaining life of process -
10 yrs. or 5 yrs.
 - (d) energy cost - 2.20/ M BTU
± 20%
3. Enter the tables to determine if he can economically justify additional insulation and if so, how much.

The Committee agreed to produce a 56 page brochure on this subject. Costs are:

Production (J.Baer)	\$ 6,000.
Printing	10,000.
Technical services (O.C.)	<u>5,000.</u>
	\$21,000.

The brochure will be sold for \$1.50 to members and \$3.00 to outsiders.

TIMA FOLDER

L. Solari reported as follows:

RECOMMENDATION for a NEW ECON BROCHURE

Objective

To promote all of TIMA's programs to save energy and money through the up-to-date specification and use of elevated-temperature insulations. The brochure will cover the total of TIMA'S effort in this respect. It will cover new construction and retrofit. It will reach the commercial-mechanical, process, and power markets.

Content

About half on the fundamentals of insulation. About half on the methods of specification and how to learn more about them.

1. Introduction and fundamentals:
 - a. What insulation is.
 - b. What it does -- retard heat flow, control surface temperature, process heat control.
2. The methods:
 - a. How much insulation saves. Introduce ECON concept. The payback with ECON (examples).
 - b. ECON-I
 - c. ASHRAE 90 (depends upon timing of ASHRAE 90 release).
 - d. R-ECON, "ECON for Existing Facilities."
 - e. A little on residential piping (California Law).

Working title

(Not final, meant as description only)

INSULATE TO SAVE

New Construction - Existing Facilities

- + Mechanical systems
- + Industrial plants
- + Utility plants
- + Residential piping

Distribution to

1. Engineers.
2. Owners.
3. Government.
 - a. Federal -- FEA, FPC, Dept. of Commerce (including Office of Energy Programs and NBS), all of the specifying agencies.
 - b. State -- the state energy offices, NCSBCS delegates, code officials.
 - c. Members of code bodies -- ICBO, BOCA, SBCC.
4. Architects, other designers and specifiers.
5. Gas and electric utilities.

Distribution by

1. TIMA member companies.
2. Publicity.
3. Advertising.
4. Government, especially Federal, at seminars, workshops, etc. FEA and OEP have promised cooperation.
5. As a leave-behind piece at industry-sponsored presentations.
6. By utilities to their industrial and commercial customers.

Format

An 8-pp. booklet, 8½ x 11 page size. A loose-sheet insert would contain a coupon for ordering ECON-I and R-ECON.

Budget

The cost to produce 20,000 folders will be:	
Production (J. Baer)	\$ 4,000.
Printing	3,200.
	<u>\$ 7,200.</u>

The folder will be sold to members for 20¢ /copy.

PROMOTION PROGRAM

J. Baer reported as follows:

1. Tube Turns case history printed in Foundry magazine, April. Reprints available at 8-10 cents each.
2. Sheppard Pratt case history scheduled for Heating, Piping, Air Conditioning magazine, June or July.
3. Federal government liaison:
 - a. Meeting with Bill Porter, FEA, principally on seminars the FEA plans to conduct. We talked about TIMA's conducting the insulation portion of the seminars.
 - b. Bob Massey, NBS, is working on a supplement to EPIC, which will include a section on thermal insulation. We told him about the proposed RECON study. He is eager to see this, with the idea in mind that he will incorporate it in the supplement.
 - c. Bill Porter (in charge of communications -- of a publicity and promotional nature -- with industry) will

will promote RECON to existing plants.

- d. Office of Energy Programs, Dept. of Commerce, also has promised cooperation.
4. RECON booklet has been written in draft form.
5. New insulation booklet has been outlined.
6. Three releases prepared and distributed on California law requiring insulation on hot piping:
 - a. plumbing, heating, mechanical contractor magazines.
 - b. hotel and motel magazines.
 - c. building and code magazines.
7. TIMA has had two requests, directly or indirectly, for industrial insulation information -- from Southern California Edison Co., and Central Maine Power Co.
8. Case history articles in progress:
 - a. Midway Junior College, Midway, Ky.
 - b. Sheppard Pratt Hospital, for a hospital magazine.
 - c. Russel Mills, a textile plant.
 - d. An energy conservation study for the Coatings Div. of Celanese Corp.
9. We have supplied data to a contractor for the FEA on which to base a forecast on energy conservation from industrial insulation(process only) in 1985 -- 1.85 quadrillion Btu.
10. Report on Communications Committee meeting:
 - a. The committee reviewed the RECON program and noted its adaptability to work with government, plant engineers, and utilities by TIMA and member companies. It asked the C&M and the P&P committees' guidance as to whether RECON or the new insulation brochure should be given priority.
 - b. Agency activities were reviewed.
 - c. Other activities listed in this report to C&M and P&P were reviewed.
 - d. The Committee recommends preparation of slides and scripts that could be organized into several slide presentations. Prospective users:

- (1) By TIMA and the FEA at government-sponsored seminars.
- (2) At seminars sponsored by gas and electric utilities.
- (3) By individual plants. The EPIC guide suggests that plants hold internal meetings on insulation.
- (4) At American Institute of Plant Engineer meetings.
- (5) By TIMA- member companies.

A basic slide presentation on insulation for new and existing construction would be written, with different add-on sections for different industries.

Recommended budget: \$10,000.

The Committee agreed to spend an additional \$2,000 for the FEA presentation, for a total cost of \$7,000.

PROJECTS ACCEPTED by COMMITTEE - 1975 BUDGET

Promotion (J.Baer)

Fed. Gov't Liaison	\$ 10,000.
Recon Presentation	2,000.
TIMA folder	4,000.
Case histories	10,000.
Utility	3,000.
TIIC	300.
General Publicity	2,000.
ECON I	500.
RECON	<u>6,000.</u>

	\$ 37,800.
Travel & Conference	4,000.
TIIC	6,000.
Advertising	<u>3,500.</u>
	\$ 51,300.

Income \$55,000.	
Anticipated Balance	\$ 4,000.
Balance 12,31,74	<u>\$ 9,000.</u>
	\$ 13,000.

Revolving Fund

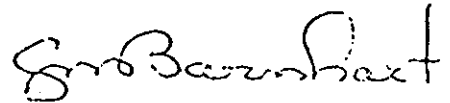
Balance 3,31,75	\$20,509.
ECON I	<u>4,500.</u>
	\$16,009.
	<u>\$15,000.</u>
RECON	\$ 1,009.
Folder	<u>3,200.</u>
	-\$ 2,191.

NEW BUSINESS

- (a) It was agreed that TIMA would participate in a panel discussion at the 1976 NICA Convention. The subject to be "pitfalls of performance specifications."
- (b) O.C. will contact the TIMA legal counsel to determine whether a lawyer should be present at the Committee Meetings.
- (c) The next Committee Meeting will be in Chicago, ILL, September 18, 19, 1975.

ADJOURNMENT

There being no further business, the meeting was adjourned at 1:00 P.M.



J.M. Barnhart
Executive Director

JMB/elb