



# Lead Industries Association, Inc.

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February 13, 1986

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C.G. Pfeiffer

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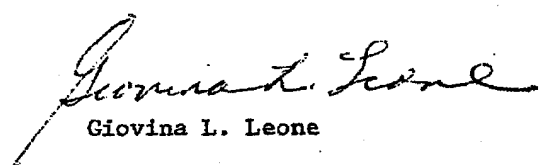
To: Lead Industries Association  
Environmental Health Committee  
Lead Industries Association  
Regulatory Activities Committee

FR: Giovina L. Leone  
Director Environmental Health

RE: Joint Meeting of LIA, BCI, and SLISA regarding EPA Staff Paper  
on Lead Ambient Air Quality Standard.

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Attached are the minutes to the January 21, 1986 joint meeting between LIA, BCI, and SLISA to discuss the EPA draft staff paper on the lead NAAQS. The Clean Air Science Advisory Committee is scheduled to meet on this in early March.

  
Giovina L. Leone

GLL/keg  
enclosure

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JOINT MEETING  
OF THE  
LEAD INDUSTRIES ASSOCIATION  
BATTERY COUNCIL INTERNATIONAL  
AND  
SECONDARY LEAD SMELTERS ASSOCIATION

January 21, 1986  
LIA Offices  
New York, NY

A joint meeting of the LIA, BCI and SLISA was held at 10:30 a.m. on Tuesday, January 21, 1986 at the LIA offices in New York City. The purpose of the meeting was to discuss the LIA sponsored TRC study into the impact of a reduced ambient air quality standard for lead on the entire lead industry. Gale Hoffnagle of TRC presented information on the progress of the study to the representatives of LIA, BCI and SLISA.

Gale began with a discussion of EPA's cost benefit analysis. According to EPA, the cost analysis, done by GCA, is complete while the benefits analysis remains incomplete. An outline of the benefits analysis will be presented at a Clean Air Science Advisory Board meeting scheduled for early March, but will not be finalized until after CASAC reviews the health criteria upon which it is based. Gale summarized the TRC study as:

1. determination of the impact area of plant emissions in terms of lead in air
2. determination of resulting costs and benefits after careful examination of controls necessary to meet target air lead levels and number of children actually at risk of having blood lead levels over 20 ug/dl.

TRC went about determining this through a questionnaire which was sent out to the lead industry with the assistance of LIA, BCI and SLISA. The categories of the lead industry include: primary smelters, secondary smelters, battery manufacturers, lead chemical manufacturers and one TEL facility. According to Gale, the response was adequate, but not as good as it could be (see attachment 1). All the primary smelters have either sent or are in the process of completing their questionnaires. Of the battery companies, 38/138 have responded representing five major companies. Of the secondary smelters, 9/26 responded, which will make analysis of this group difficult. Of the lead chemical facilities, none have responded. The one TEL facility has responded.

Unfortunately, the only way to get a more accurate count of the children at risk than the EPA Battye count of 240,000 is to obtain it from the questionnaire. Another important factor is determining the distances from each facility where air lead levels drop off. According to most data, a concentration of 1.5 ug/m<sup>3</sup> occurs at the fence line and significantly drops off within 1 kilometer from the fence line. Given this information along with the number of children living at various distances from the plant, a determination of the actual number of children at risk can be made.

With regard to air modeling, it appears that a significant amount of data is available for primary and secondary facilities, but not very much for battery plants.

The questionnaire has revealed 6 blood lead studies that have not been published. This will help to establish how many children are at risk of getting high blood lead levels as a result of exposure from nearby facilities. Two additional studies at an RSR and USS Lead facility were brought up at the meeting. According to the studies which TRC has evaluated the highest number of children to have blood lead levels above 20 was 6%.

Gale completed the update of the study with a discussion of TRC's preliminary cost benefit analysis (see attachment 2). According to the benefit analysis, there are an estimated 57,753 children living around lead facilities. If 6% are at risk, then the total number at risk is 12 million, a significant reduction from the 240,000 count.

It becomes apparent why EPA is so interested in including hypertension as a health effect. When adults are included, the benefit costs rise significantly according to the methodology used in the lead in gasoline proceedings. Even though the cost analysis is complete, it probably won't be presented at the CASAC meeting since it is a science advisory group. TRC will be coordinating their cost numbers with a Bureau of Mines study that is presently being conducted with the primary industry. A BOM study with secondaries is also being coordinated.

Members of the committee volunteered to contact those companies which have not responded to the questionnaire.

There was some discussion about whether or not a macro-economic study should be completed by TRC on the impact of this regulation and others on the lead industry. Of particular importance is the impact this regulation will have on secondary smelters since many are closing and others feel certain that closing of their facilities are imminent if a reduction in the lead NAAQS is accomplished. There was a suggestion that later in the process other interested government and quasi-government agencies should be informed of impact, this regulation may have on the industry OMB is among the groups that were mentioned. LIA has been in contact with OMB and they seem very receptive to any information we could provide them.

The EPA has also indicated interest in obtaining our data before the CASAC meeting. A decision was made to provide them with an updated count of facility closings and possibly a count of the number of children at risk.

# Children

| GCA |                                      | Reporting | Children     | Open | Children      |
|-----|--------------------------------------|-----------|--------------|------|---------------|
| 7   | Primaries & Refining<br>5 kilometers | 4         | 10,031       | 6    | 15,046        |
| -   | Tetra Alkyl Lead<br>2 kilometers     | 1         | 365          | 1    | 365           |
| 60  | Secondary<br>2 kilometers            | 6         | 5,183        | 26   | 22,459        |
| 132 | Battery<br>1 kilometer               | 39        | <u>5,619</u> | 138  | <u>19,883</u> |
|     |                                      |           | 21,198       |      | 57,753        |

If all require assistance (\$3500) 202M

If 6% 12M

Estimate of Adult men (40-59yr) 28,805

If all require treatment for HT  
\$220/yr for 10 years 63M

If .297% have heart attacks (\$60,000) 5M

If .06% have strokes (\$44,000) .8M

If .286% die (1M) 82M

151M

GCA 240,000 kids

If all 840M

If 6% 5M

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Control Costs (.5ug/m<sup>3</sup>)

|                      | Capitol (M) | O+M (M)     |
|----------------------|-------------|-------------|
| Primary and Refining | 45.6        | 1.4         |
| Tetra Alkyl          | 3           | .5          |
| Secondary            | 39.2        | 2.7         |
| Battery              | <u>49.4</u> | <u>10.4</u> |
|                      | 137.2       | 15.0        |
| D+M over 10 years    |             | 150         |
|                      | TOTAL COST  | 287.2M      |

Compare to benefit  
for children  
for adults  
for both

12M  
151M  
163M

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| 1                  | 2             | 3                      | 4    | 5    | 6                      | 7   | 8    | 9                      | 10  | 11    | 12         | 13         | 14        | 15      | 16    | 17 | 18 | 19 | 20     |
|--------------------|---------------|------------------------|------|------|------------------------|-----|------|------------------------|-----|-------|------------|------------|-----------|---------|-------|----|----|----|--------|
| Company Name       | Location      | Census Data (Diameter) |      |      | Census Data (Diameter) |     |      | Census Data (Diameter) |     |       | Blind Fold | Monitoring | Modelling | Control | Case  |    |    |    |        |
|                    |               | 0-5                    | 5-10 | 1-2  | 2-5                    | 0-5 | 5-10 | 1-2                    | 2-5 |       |            |            |           |         |       |    |    |    |        |
| Primer, Smelter    | Humboldt      | 52                     | 30   | 47   | 400                    |     |      |                        |     | AVAIL | AVAIL      | AVAIL      | AVAIL     | AVAIL   | 15000 |    |    |    |        |
| Dr. JVC            | East Helena   | 99                     | 126  | 262  | N/A                    |     |      |                        |     | YES   | YES        | YES        | NO        | YES     |       |    |    |    |        |
| Crucero            | El Paso       |                        |      |      |                        |     |      |                        |     | AVAIL |            | YES        | YES       | YES     | 1500  |    |    |    | 1900   |
| Crucero + refinery | Elmore        | 0                      | 0    | 4    | 49                     |     |      |                        |     |       |            |            |           |         | 300   |    |    |    | 275    |
| AMAX               |               |                        |      |      |                        |     |      |                        |     |       |            |            |           |         |       |    |    |    |        |
| Refinery           | Omaha         | 0                      | 7    | 516  | 8408                   |     |      |                        |     | NO    |            | YES        | YES       | YES     | 2000  |    |    |    | 2500   |
| Crucero            |               |                        |      |      |                        |     |      |                        |     |       |            |            |           |         | 120   |    |    |    | 30     |
| Titan Chemical     | Davenport     | 37                     | 85   | 243  | N/A                    |     |      |                        |     | NO    |            | YES        | YES       | YES     | 2     |    |    |    | 3000   |
| Dugone             |               |                        |      |      |                        |     |      |                        |     |       |            |            |           |         |       |    |    |    |        |
| Secord, Shaleen    | Baton Rouge   | 0                      |      | N/A  | N/A                    |     |      |                        |     | YES   |            | YES        | YES       | YES     | 2000  |    |    |    | 3000   |
| Johnfield          | Mercedes City | N/A                    | N/A  | N/A  | N/A                    |     |      |                        |     | YES   |            | YES        | YES       | YES     | 100   |    |    |    | 30     |
| Taracore           | St. Helena    | N/A                    | N/A  | N/A  | N/A                    |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
| Bangor             | East Point    | 0                      | 14   | 78   | 572                    |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
| East Point         | Logan Station | N/A                    | N/A  | N/A  | N/A                    |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
| Rossmore           | Rossmore      | 0                      | 7    | 3779 | 32846                  |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
| GNB                | Upton         | 0                      | 44   | 345  | 358                    |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
|                    | Frederick     | 0                      | 122  | 493  | 4301                   |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
| GBC                | Dallas        | 32                     | 24   | 241  | 7564                   |     |      |                        |     | AVAIL |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
| Reading            |               | 4                      |      |      |                        |     |      |                        |     | YES   |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
| Boring             | Humboldt      | 36                     | 98   | 223  | 300                    |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
| GBC                | Mercedes      | 29                     | 112  | 206  | 867                    |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
|                    | Frederick     | 84                     | 337  | 707  | 1399                   |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
|                    | Salina        | 0                      | 5    | 25   | 615                    |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
|                    | Los Angeles   | 44                     | 726  | 3406 | 20648                  |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
|                    | Mercedes      | 0                      | 34   | 94   | 381                    |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |
|                    | Shoshone      | 3                      | 52   | 1522 | 9517                   |     |      |                        |     | NO    |            | YES        | YES       | YES     | 100   |    |    |    | IMPASS |

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| 1                | 2           | 3                       | 4            | 5         | 6        | 7            | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  |
|------------------|-------------|-------------------------|--------------|-----------|----------|--------------|---|---|----|----|----|----|----|----|----|----|----|----|-----|
| Company Name     | Location    | Census Data (Relatives) | Blond Lead   | Marriages | Modeling | Control Cost |   |   |    |    |    |    |    |    |    |    |    |    |     |
| Beating (cont)   |             |                         |              |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    |     |
| GNB              |             |                         |              |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    |     |
|                  | Lawrence    | 75                      | 225          | 940       | 2844     |              |   |   |    |    |    |    |    |    |    |    |    |    | 205 |
|                  | Shawport    | 3                       | 72           | 114       | 521      |              |   |   |    |    |    |    |    |    |    |    |    |    | 434 |
|                  | Dillon      | 0                       | 0            | 10        | 428      |              |   |   |    |    |    |    |    |    |    |    |    |    | 433 |
|                  | Lyndberg    | 35                      | 120          | 470       | 2460     |              |   |   |    |    |    |    |    |    |    |    |    |    | 432 |
|                  | Lawrence    | 59                      | 287          | 760       | 2711     |              |   |   |    |    |    |    |    |    |    |    |    |    | 121 |
|                  | St. Paul    | 89                      | 357          | 2248      | 14052    |              |   |   |    |    |    |    |    |    |    |    |    |    | 161 |
|                  | Adams       | 10                      | 34           | 217       | 2681     |              |   |   |    |    |    |    |    |    |    |    |    |    | 223 |
|                  | Los Angeles | 63                      | 440          | 1992      | 14065    |              |   |   |    |    |    |    |    |    |    |    |    |    | 222 |
|                  | Murphy      | 10                      | 35           | 215       | 2688     |              |   |   |    |    |    |    |    |    |    |    |    |    | 221 |
|                  | Orlando     | 0                       | 72           | 116       | 137      |              |   |   |    |    |    |    |    |    |    |    |    |    | 220 |
|                  | Dunmore     | 0                       | 85           | 169       | 254      |              |   |   |    |    |    |    |    |    |    |    |    |    | 219 |
|                  | Atlanta     |                         | 50 residents |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 218 |
| Johnson Controls |             |                         |              |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 217 |
|                  | Birmingham  |                         | 215          |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 216 |
|                  | Harford     |                         | 250          |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 215 |
|                  | Fullerton   |                         | 0            |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 214 |
|                  | Alameda     |                         | 980          |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 213 |
|                  | Louisville  |                         |              |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 212 |
|                  | Madison     |                         | 270          |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 211 |
|                  | Owens       |                         | 100          |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 210 |
|                  | Condy       |                         | 1200         |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 209 |
|                  | De Jough    |                         | 196          |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 208 |
|                  | Tough       |                         | 260          |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 207 |
|                  | Holland     |                         | 10           |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 206 |
|                  | Winnipeg    |                         | 120          |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 205 |
|                  | Winnipeg    |                         | 3000         |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 204 |
|                  | "           |                         | 100          |           |          |              |   |   |    |    |    |    |    |    |    |    |    |    | 203 |
|                  | Leeds       | 12                      | 63           | 194       | 529      | E            |   |   |    |    |    |    |    |    |    |    |    |    | 202 |
|                  | Hughes      | 15                      | 27           | 67        | 128      | E            |   |   |    |    |    |    |    |    |    |    |    |    | 201 |
|                  | Orissa      | 24                      | 77           | 96        | 195      | E            |   |   |    |    |    |    |    |    |    |    |    |    | 200 |
|                  | Cumy        | 13                      | 39           | 161       | 174      | E            |   |   |    |    |    |    |    |    |    |    |    |    | 199 |

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