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FROM THOMAS B. BONNEY

PITTSBURGH OFFICE, 7AB

TO MR. ROLF ROLLES
ALCOA LABORATORIES
ALCOA TECHNICAL CENTER

1979 April 23

cc: Dr. P. R. Atkins, Pgh. 7AB
Mr. E. E. Rumberger, Pgh. 7AB

RE: JOINT INTERESTS - ACD, EC, and IH

Below I have commented on the plant laboratory situations as they relate to industrial hygiene. For ease of comparison I have listed them in the same order as shown in Pat's letter of March 29. However, before discussing the individual plants, it might be helpful if I made some general comments relative to plant laboratory capabilities likely to be needed for industrial hygiene purposes in the foreseeable future.

In general, our laboratory needs will be modest. Few items other than the common laboratory equipment and instruments will be required. Our smelting locations will require microbalances for coal tar pitch determinations. Those plants where solvent vapor exposures are common (e.g. Tennessee, Lancaster, Richmond, Davenport, etc.) can make good use of a GC unit. Although an atomic absorption unit might be handy for certain metal analyses, we very likely couldn't justify it for industrial hygiene purposes alone. For the future, wherever possible we will try to go to relatively low cost, direct reading instruments.

To meet our personnel needs, we will try to place full time professional industrial hygienists in those plants whose work loads can justify them. Industrial hygiene needs in the remaining plants will have to be met by the corporate staff or by plant personnel who have responsibility for two or more activities, including industrial hygiene. The three categories of needs are as follows:

Category I

These plants either have now or can expect to have full time industrial hygienists. To carry out their industrial hygiene programs in a reasonably prompt and effective manner, the hygienists will require on-site analytical services and sampling technician assistance. The need for industrial hygiene support services can be expected to increase considerably within the next one or two years.

Parent Company Plants

Arkansas	Vancouver
Point Comfort	Tennessee
Rockdale	Warrick
Massena	Davenport



ARCH 19258

ALCOA

SF-4563

Category II

In these plants, industrial hygiene is not likely to be a full-time job. The person responsible for industrial hygiene will also be responsible for other areas; most usually environmental and laboratory. Plant programs will require on-site analytical services and sampling technician assistance. The need for industrial hygiene support services can be expected to increase considerable within the next one or two years.

Parent Company Plants		Subsidiaries
Mobile	Vernon	Rea Magnet - Pep Industries
Badin	Lafayette	Tifton
Wenatchee	Lebanon	Chillicothe
Addy	Lancaster	Stolle
Anderson County	Richmond	Cleveland - PM
Corona	Cleveland-Forge	

Category III

Because of limited resources and a relatively small number of industrial hygiene problems, the bulk of any required industrial hygiene services will be provided by corporate staff. The needs for on-site laboratory service or technician assistance will be nil.

Parent Company Plants	Subsidiaries	
Fort Meade	L. W. Nash	Lincoln Mfg.
Logans Ferry	Marshall	Buckeye Molding
	American Powdered Metals	

As for the capabilities of the plants to meet their present and future needs, we size them up as follows:

1. Wenatchee

   A. I.H. Responsibility: Regional Environmental Manager. Sampling and analysis carried out by Works laboratory.

   B. Laboratory Resources: Adequate

   C. Laboratory Personnel:

      Requires:
      a) I.H. Upgrading

      b) Increased man-hours.

2. Vancouver

A. I.H. Responsibility: Laboratory Supervisor

B. Laboratory Resources: Adequate

C. Laboratory Personnel: Capable, but available man-hours are limited. Imminent retirement of Supervisor-Hygienist.

3. Massena

A. I.H. Responsibility: Shared between Safety Director and Laboratory Supervisor. Sampling and analysis carried out by laboratory.

B. Laboratory Resources: Adequate

C. Laboratory Personnel:

Requires:

a) Some industrial hygiene upgrading

b) Increased man-hours

4. Tennessee

A. I.H. Responsibility: Laboratory Supervisor

B. Laboratory Resources: Adequate

C. Laboratory Personnel:

Requires:
a) Some industrial hygiene upgrading

b) Increased man-hours

Retirement of supervisor in near future.

5. Badin

A. I.H. Responsibility: Engineer reporting to the Environmental Manager. Requires industrial hygiene upgrading.

B. Laboratory Resources: Probably adequate, though limited.

C. Laboratory Personnel: Probably limited for present and future needs.

6. Davenport

A. I.H. Responsibility: Laboratory Supervisor

B. Laboratory Resources: Adequate

C. Laboratory Personnel: Capable, but available man-hours are limited.

7. Mobile

A. I.H. Responsibility: Engineer reporting to Technical and Environmental Manager. Requires industrial hygiene up-grading.

B. Laboratory Resources: Adequate

C. Laboratory Personnel: Adequate

Note: At present very little involvement of laboratory in industrial hygiene activity.

8. Bauxite

A. I.H. Responsibility: Reports through Technical and Quality Assurance Manager. Capable hygienist.

B. Laboratory Resources: Environmental Laboratory - Adequate.

C. Laboratory Personnel: Environmental Laboratory - Adequate technician help.

9. Point Comfort

A. I.H. Responsibility: Works Industrial Hygienist - Capable.

B. Laboratory Resources: Environmental Laboratory - ?

C. Laboratory Personnel: Environmental Laboratory - ?

Note: Several years ago Point Comfort's plant laboratory justified, on the basis of economics, their doing industrial hygiene analyses in-house. Now we have a new team justifying its being done out-of-house on the same basis. I would feel more comfortable with an objective third party analysis of the economics in order to know whose justification I should believe.

ARCH 19261

10. Rockdale

A. I.H. Responsibility: Shared responsibility between Environmental Manager and Laboratory Supervisor.

B. Laboratory Resources: Adequate

C. Laboratory Personnel: Responsible for sampling and analysis.

Requires:
a) Industrial hygiene upgrading.

b) More man-hours which are in very short supply.

11. Northwest Alloys

A. I.H. Responsibility: Laboratory Supervisor, reasonably capable.

B. Laboratory Resources: Adequate

C. Laboratory Personnel: Unknown

12. Anderson County

A. I.H. Responsibility: Environmental Associate

B. Laboratory Resources: Long term needs uncertain. Because of the nature of Anderson County's environmental problems, much of the present industrial hygiene being done at this location has required considerable laboratory assistance from ATC. Once the collection of base-line data has been completed, we will have a better idea of what ultimately will be needed and the degree of sophistication required of the laboratory for the long pull.

C. Laboratory Personnel: Same as "B".

13. Warrick

A. I.H. Responsibility: Works Industrial Hygienist reporting to Environmental Manager. Capable.

B. Laboratory Resources: Adequate

C. Laboratory Personnel: Believe Pat Atkins has summed this up well.

ARCH 19262

14. Vernon

A. I.H. Responsibility: Reports to Laboratory Supervisor. Capable.

B. Laboratory Resources: Modest but adequate.

C. Laboratory Personnel: Generally satisfactory for their present needs though I expect that man-hours are hard to come by.

15. Cleveland

A. I.H. Responsibility: Metallurgist reporting to Quality Assurance. Capability adequate for Cleveland's needs. Limited time available for industrial hygiene.

B. Laboratory Resources: Laboratory essentially non-existent. Most of the industrial hygiene sampling and analysis is farmed out.

C. Laboratory Personnel: Same as "B".

Note: Upgrading laboratory and environmental services at Cleveland will have to reckon with the existence of two independent plants (i.e. Forge Plant and the Permanent Mold subsidiary).

16. Richmond

A. I.H. Responsibility: Reports to Quality Assurance through the laboratory. Needs some upgrading.

B. Laboratory Resources: Adequate

C. Laboratory Personnel: Available man-hours may be limited.

17. Corona, Lebanon, Lancaster, Rea Magnet, Chillicothe. No critical needs seen at this time.

On the basis of industrial hygiene laboratory needs, I would prioritize the plants as follows:

1.	Vancouver	4.	Cleveland	7.	Anderson County	10.	All other plants
2.	Warrick	5.	Lafayette	8.	Tennessee		
3.	Rockdale	6.	Point Comfort	9.	Badin		

THOMAS B. BONNEY

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ARCH 19263