



Newsletter Vol. 5

The Study for the Development of an Integrated Solution Related to Industrial Waste Management in the Industrial Pole of Manaus

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Background of the Study

The title study is being carried out under a Cooperation Agreement signed by the Superintendence of the Manaus Free Trade Zone (SUFRAMA), the Brazilian Cooperation Agency (ABC-MRE) and the International Cooperation Agency of Japan (JICA), and in collaboration with a wide range of organizations such as the Amazonas State Industries Federation (FIEAM), the Amazonas State Industry Center (CIEAM), the Japanese-Brazilian Commerce Chamber of the State of Amazonas (CCINB-AM) and other state and municipal environmental organizations such as the Institute of Amazonas State Environmental Protection (IPAAM), Socio-Environmental Program of Manaus Igarapé (PROSAMIM), Municipal Secretariat of Urban Cleaning and Public Services (SEMULSP), and Municipal Secretariat of the Environment (SEMMAS).

Report on the Second Workshop

Overview

Aiming to involve stakeholders in the process of establishing an industrial waste management system as part of a five-year master plan to be implemented between 2011 and 2015, the second workshop was held on November 27 from 2:00 - 6:00 pm as an event of the highly anticipated Amazonas International Fair, FIAM 2009. The planning committee decided to hold the workshop at a larger venue at the Comfort Hotel Manaus to accommodate as many participants as possible. The event was considered a great success, bringing together 137 stakeholders from waste service companies, related industries, public agencies, and others, to exchange opinions and work out answers as the study enters its second phase.

In the first phase, the study benefited from the participation of PIM factories and waste service companies in a number of baseline surveys, which culminated in the first workshop on September 11, 2009 at the SUFRAMA auditorium in Manaus. The focus of the first workshop was to build consensus among stakeholders, present the results of the baseline surveys up to that point and give an

opportunity for participants to voice their opinions, ask questions and provide feedback.

The objective of the second workshop was to present the concept of Industrial Waste Management Master Plan (M/P), and exchange with stakeholders. After the opening ceremony, there were three speakers which covered the themes of (1) industrial waste management (IWM) in Japan, (2) the concept of IWM master plan and (3) the administration of industrial waste in Rio de Janeiro, respectively. This was followed by a workshop session where participants were divided into small groups to discuss the topics and provide feedback.

Opening Ceremony

The workshop opened with a greeting by Mrs. Maria Gracilene Belota, SUFRAMA's Foreign Trade General Coordinator, on behalf of Mrs. Flávia Grosso, Superintendent of SUFRAMA, followed by a brief address given by Mr. Katsuhiko Haga, Resident Representative of the JICA Brasilia Office. Other representatives and experts seated at the front of the room, many of whom gave presentations or answered audience questions during the event, were Mr. Susumu Shimura, Team Leader of the JICA Study Team; Mr. Antonio Stroski of IPAAM; Mr. Alexandre Kadota of FIEAM/CIEAM/CCINB-AM; Dr. Maria Cristina of the Public Ministry; Mr. Paulo Cesar Cavaletti of SEMULSP; and Mrs. Erika Catanhede Wuillaume of the State Environmental Institute of Rio de Janeiro (INEA/RJ).

Speaker Presentations

After a brief introduction of the workshop objectives, three presentations were given to orientate the audience with the concept of an

IWM Master Plan and introduce proposals by the JICA Study Team. To accommodate both English and Portuguese audience members, all presentations were accompanied by simultaneous translation. All of the presentation materials are currently available in English and Portuguese on the SUFRAMA website.



Speaker Presentation at the 2nd Workshop

The first presentation concerning Industrial Waste Management in Japan was conducted by the Team Leader of the JICA Study Team, Mr. Susumu Shimura. He presented the industrial waste flow in Japan and current conditions, showed a bad example of IWM in Teshima Island and what was learned from that experience, and then spoke about current IWM policy in Japan, providing examples such as Kawasaki Eco-town and the concept of zero emission.

The next presentation titled "Concept of Industrial Waste Management Master Plan" was given by Mr. Alexandre Kadota, representing FIEAM, CIEAM and CCINB-AM. He gave an overview of the objective of the IWM Master Plan in PIM and went into detail about the current issues of IWM in PIM before presenting four proposals with multi-faceted measures recommended to solve such issues. The four proposals are given below; for details

of these proposals, please check the SUFRAMA website or contact the JICA Study Team:

1. Identify a clear IW flow in PIM,
2. Secure final destination of IW in PIM,
3. Strengthen administrative capacity, and
4. Improve the business environment for waste service companies.

Finally, a lively presentation on IWM in Rio de Janeiro was given by Mrs. Erika Cantanhede Wuillaume of the State Institute of Environment for Rio de Janeiro. She gave an in-depth overview of industrial waste in the state, starting from civil responsibilities and administrative and penal sanctions, and then showing examples of how control instruments--such as a waste inventory, waste manifest including an on-line database, and authorizations--are utilized.

Once all the presentations were completed, time was given for a Question and Answer session using questions submitted during the presentations. The experts answered some challenging questions and gave clarification where needed, and left some issues to be discussed among the workshop groups where there was a need for further consensus.

Workshop Groups

After a short break, participants were asked to join small workshop groups. Although some participants opted to move on to other events at the International Fair, many remained for the entire event. Thus, two groups were formed of the remaining 50-plus people, which were facilitated by Mr. Stroski (IPAAM) and Mr. Kadota (FIEAM/CIEAM/CCINB-AM). For the next 45 minutes, members were free to talk about the topics that were important to them,

where they may have had questions or opinions. Staff was also present to record the opinions and discussion and summarize these, which were later presented to the entire group by the facilitators.



Discussion Group-1 at the 2nd Workshop

GROUP 1, which had about 25 participants, led by Mr. Kadota, discussed various topics, leading with a question about the rate of co-processing in Japan of various materials. Mr. Shimura answered that plastics and wood were increasing because of more efficient incineration processes and new technological processes which use the resulting ash, whereas the co-processing of tires is decreasing because of higher durability. The group also discussed whether the Agricultural Ministry would be involved in evaluation of industrial wastes, but IWM is not an attribution of the Agricultural Ministry. The third topic discussed was the difficulty in recycling plastics in PIM, to which Mr. Kadota explained that soft type plastics can be recycled if it is clean, whereas hard types require an expensive recycling process which became unfeasible after the recent drop in the oil price. Following, there was a valuable comment concerning current legislation that only allows wood to be processed by companies involved with social

causes, to which it was suggested that interested parties should get in touch with the State Sustainable Development Secretariat (SDS). Finally, the group expressed concern about the 2010 to 2015 deadline established for the implementation of actions being proposed by the JICA study. This provided an opportunity to further explain the justification for this due to certain time-consuming actions, such as the construction of a new legal landfill.

GROUP 2, which had about 26 participants, was led by Mr. Stroski. In this group, many participants voiced opinions and provided feedback and suggestions concerning the study. One suggestion was that, since some factories may have declined to answer some questions out of a perceived need for secrecy, the companies who cooperated should be publicized on the SUFRAMA website in order to create a reverse incentive for those who refused. Another participant commented on the fact that a number of similar reports had already been submitted to different organizations (SUFRAMA, IPAAM and IBAMA) and that each one has a different inventory; it was therefore suggested that the information requested be unified and that it is better to send requests electronically to assist in archiving and controlling the files. On the topic of tax incentives, one participant suggested such measures be used to entice recycling companies; however, another participant stressed that there are already several incentives granted to factories and the need lies more in the creation of a wastes exchange and heightened awareness of 3R practices. This was echoed by others, saying that the waste manifest system presented by Mrs. Erika Cantanhede Wuillaume of the INEA in Rio de Janeiro is ideal and that it is important to review

the fees that are charged by IPAAM and others. Again on the issue of environmental accounting, one participant voiced the fact that waste reduction will only take place truly once there is a charge to dispose of waste at the final destination, to which Mr. Stroski clarified that any waste disposal fees would not be linked to the environmental licensing fee paid to IPAAM. Lastly, it was suggested that materials suppliers from different processes be involved in the integrated management of PIM wastes.

Thanks to the active participation of the small group members, the workshop sessions proved to be very valuable, and although the tight schedule did not allow time for the groups to discuss the issues at great length, many expressed their interest to remain closely involved in the study as it progressed and were looking forward to the next workshop.

Announcement of 3rd Workshop

The next event will be the third workshop held at the SUFRAMA on Tuesday, April 6, 2010. It will be a full-day workshop from morning until early evening with time for lunch and short breaks. The objective of the workshop will be to present the draft Industrial Waste Management Master Plan and exchange with stakeholders. Please check the SUFRAMA website for the latest details or contact SUFRAMA or the JICA Study Team for more information.