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WORLD ENVIRONMENT CENTER

STAFF TRIP REPORT

TO

CZECH REPUBLIC

AND

SLOVAK REPUBLIC

JANUARY 31 - FEBRUARY 11, 1994

**WORLD ENVIRONMENT CENTER
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FEBRUARY 1994

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I. EXECUTIVE SUMMARY

Thomas J. McGrath, WEC staff, visited the Czech Republic and the Slovak Republic to meet with enterprises and other organizations that could participate in the waste minimization impact program. Also to discuss arrangements for the study tours to the U.S., the waste minimization workshops to be held in country, and identify potential pollution prevention centers.

The results of the trip were strong praise for the waste minimization demonstration projects underway and firm support for the waste minimization impact program.

II. MEETINGS

Tuesday, February 1, 1994

Mrs. Ludmila Hofmanova and Thomas J. McGrath, WEC, met with Prof. Frantisek Kastanek, Director, Institute of Chemical Process Fundamentals, Czech Academy of Science.

The Institute has 160 employees of which 80 have a Ph.D. degree. Also, they have independent members who pay a fee. In addition, there are 15 large and 25 smaller chemical companies affiliated with the Institute.

It is trying to develop new technology for recycling the residue waste from mining. It has good relations with the Ministry of Environment and Czech industry and its funding is approximately 80% from the Czech government and 20% from industry.

Mr. Kastanek said that the Institute is interested in participating in the Waste Minimization Impact Program (WMIP) and would like to provide consulting services in waste minimization in the future.

Wednesday, February 2, 1994

Met with Dr. Vladislav Bizek, Deputy Ministry, Ministry of Environment. Mr. Bizek's department is responsible for developing policy, contact with domestic and foreign policy advisors, PHARE funding, and providing government funding for environment projects through Czech entrepreneurs. He advised that information about the funding for Czech entrepreneurs environmental projects will become available soon and that he will provide it to WEC.

Minister Bizek is interested in the WMIP because his department is investigating how to optimize economic instruments to reduce pollution.

Met with Mr. Ivan Zika, Director of the Department of Waste. This department's responsibilities include Risk Assessment, Environmental Liability and Insurance Cost, Emergency Response, Accident Prevention, the clean-up of the former Soviet bases and other hazardous sites.

Mr. Zika informed us that he has a large amount of foreign literature, laws and regulations which is difficult to read because of the demands on his time. He requested WEC to try to send him information about the areas of his responsibility that would be in a simpler narrative form which he could quickly read and understand.

WEC advised that U.S. associations and trade journals provide analysis of environmental regulations and interpret the impact that the regulations could have on the association members and the readers of the trade journals. He said this type of information would be very good to receive as he has seen some examples. WEC will investigate and advise him about the available literature from the U.S.

Met with Dr. Frantisek Reichmann, Director of the Division of Geology. His department's main concern is the impact that mining has on the environment and he would greatly appreciate any information WEC could supply.

Mr. Reichmann was briefed on WEC mining assessments in Poland and Romania. WEC will contact its sources and put them in direct contact with Mr. Reichmann.

Met briefly with Petr Gandalovic, Deputy Minister. Minister Gandalovic's department is responsible for the implementation of Environmental Policy. He had to cut short our meeting because of other unexpected activities. He is very interested in the WMIP and requested another meeting tomorrow afternoon near the airport because he has to fly to Germany.

Met with Dr. Jiri Palaty, Director of the Chemical Technology Facility of Environment Technology which is a separate institute of the University of Chemical Technology.

The University has 2,000 students with a faculty of 300. There are 100 professors in the Institute.

Dr. Palaty is very interested in waste minimization programs because waste minimization is taught at the Institute. He is interested in participating in the WMIP which could help the Institute perform waste minimization consulting services in the future.

Met with Dr. Milos Paleck, Director, Occupational Safety Research Institute. Dr. Milos advised that the Institute performs programs which would be comparable to the U.S. NIOSH. The Institute is an independent organization which has 60 employees, 15 of which work in the field.

He is interested in WMIP because of improved safety with the reduction of worker exposure to hazardous materials. He is also interested in participating in WMIP and providing consulting services in the future.

Met with Mr. Kuntz, Alpha T.V., to finalize discussions about the production of a T.V. documentary on the WMDP at Chemopetrol for showing on Czech television and for use in the WMIP workshops. Mr. Kuntz confirmed that Chemopetrol has

agreed to fund one quarter of the cost of the documentary. The discussions finalized details so that Alpha could start production in time for showing at the WMIP workshop.

WEC will send a contract along with information about its programs worldwide. Mr. Kuntz will contact Ms. Lee Roussel, to discuss her involvement by giving a statement on the film about USAID funding for WEC and other programs in the Czech program. It was agreed that the cost of the finished documentary would not exceed 400,000 kcs. and that the video would be ready by mid-May. The project is conditioned on AID Washington approval.

Met with Mr. Jaroslav Michalek, Executive Director, Association of Producers of Environmental Systems. This organization is interested in participating in the WMIP as a consultant. It appears that its membership has good relationships with Czech industry and could be a good vehicle for waste minimization consulting.

Thursday, February 3, 1994

Vice Minister Radomir Sabela arranged a meeting for the WEC representatives with Mr. Zdenek Hermer, General Director, Civil Engineering and Building Materials Sector and his chief advisor, Mr. Jan Matousek, and Ms. Ivana Svadlenkova, Department of Privatization. The privatization department, in addition to the chemical sector, report to the Vice Minister.

Mr. Hermer and Ms. Svadlenkova expressed their interest in the WMIP and its economic importance. They will report this to the Vice Minister and look forward to the expansion of the WMIP into other sectors.

Met with Mr. Gustav Wieczorek, President of Good Economic Systems (GES). This organization based in Ostrava wishes to participate in the WMIP. It has organized many workshops, done some waste remediation projects, and has some pollution monitoring equipment. It directs its programs to mid-sized companies which would complement WEC's WMIP directed at the larger enterprises. GES has co-sponsored seminars with the Czech Environmental Management Center (CEMC).

Met at CEMC with representatives from enterprises and consulting firms interested in participating in the WMIP. These enterprises are listed below:

<u>Enterprise</u>	<u>Participant</u>
Keramoprojekt, Praha a.s.	Zezula
University of Economy	Remtova

KAP, s.r.o., Praha	Beranek
Cleaner Production Center	Dobes
Sindat	Vaclavek
Ostramo, Vlcek a spol.	Vlcek
Spolana	Barkman
APES	Michalek
Spolchemie	Pacha
Farmakon	Zak
VUANCH/Research Institute for Inorganic Chemistry	Petrak
Chemoprojekt	Vek
CEMC	Matyas
University of Chemistry and Technology/Faculty of the Environment Protection	Kuras

WEC gave a detailed presentation about WMIP. All attendees expressed interest in participating.

Met with Mr. Gandalovic, Deputy Minister, Ministry of Environment. He said that WMIP is the type of program that can help Czech industry improve the environment. He wants to work with WEC as the WMIP is implemented.

Friday, February 4, 1994

Met with Mr. Radomir Matyas, President of CEMC. Discussed his projects and needs.

Mr. Matyas said that his computer system is very satisfactory for CEMC needs. What he needs is a way to improve his communication with his members and he is inquiring if this could be done by improved computer technology.

WEC suggested several methods for his consideration; an "insiders' activities

report similar to WEC's monthly report and a planned schedule of personnel meetings with CEMC Board members at their facility. WEC had copies of its monthly activity report faxed to Mr. Matyas.

Mr. Matyas described CEMC. It has 55 members and three major programs classified as (1) Coefficiency Program, (2) Economics, and (3) Ecology.

The specific projects under these programs are (a) the impact of ecology legislation on the economy. A series of roundtable discussions which included members of parliament were held to discuss this subject, (b) Environmental Liability. CEMC will assist the Hatch Company, a Canadian consulting firm working under a grant from the Canadian government, to conduct a workshop on this subject, (c) a program to attract the interest of Czech Banks in financing environmental projects, (d) the development of programs that will provide the most beneficial results for the cost in improving the environment (e) Environmental Impact Assessments (f) Health and Safety Programs and (g) seeking substitutes for asbestos.

In response to WEC's inquiry about a program for emergency response, Mr. Matyas said that the Occupational Safety Research Institute, a CEMC member, is concerned about this area and, therefore, CEMC would not consider it for its own programs.

In a separate meeting, met with Mr. Dobes, head of the Clean Production Center which is an independent group affiliated with CEMC. This group was organized in response to a proposal from the Government of Norway to provide four million crowns to fund the establishment of such an organization. The CPC will look for ways to improve an enterprise manufacturing process so that it creates less waste. The CPC does not know when it will receive funding from Norway.

WEC advised that a similar organization was established in the U.S. by the Society of Chemical Engineers and it will send information about the U.S. organization to CPC.

Mr. Matyas introduced Mr. Roman Vyhnanek, CEMC, new program manager for ecological management. This section (1) seeks to establish environmental programs that can be managed in accordance with EC regulations, (2) develop environmental auditing, (3) work in a project now underway in Bohemun which involves a comprehensive approach to addressing environmental problems in a region. The project is funded from several groups located in the area. (4) work with the Clean Production Center.

WEC informed Mr. Matyas that it is presently searching its environmental information sources in the U.S. It seeks to develop a reference source of

industrial pollution prevention information from literature and data bases. It will provide this information to CEMC and others after it's compiled.

At CEMC, met with Mr. Laroslav Vavrim of DMMMS and Dr. Petr Nemeč to discuss an information dissemination program about WMIP.

WEC explained that the WMIP intends to transfer the information obtained from the WMDP at two chemical facilities to the chemical sector through the study tour to the U.S. and at two subsequent workshops. The purpose of the second one-day reporting workshop is for the WMIP companies to report on their successful waste minimization projects. At this workshop, Czech industry will be invited to hear about the positive results and to be encouraged to start their own waste minimization program by using the information developed by WEC at the workshop and by using the services of the trained consultants.

Comment

CEMC has been in existence for one year. WEC participated in its formation. WEC recommended that for its first year, CEMC concentrate on one, two or three specific programs of its own origin so that it could demonstrate concrete program results. Mr. Matyas acknowledged this, but said that circumstances required CEMC to address many subjects.

In discussions with other organizations and the WEC country coordinator, it appears that CEMC pluses are (1) long on lofty goals and program planning (2) a strong membership base and (3) well organized. The minuses are (1) short on specific independent program accomplishments, (2) works for and promotes only its members and (3) creates the impression that it is involved to a much greater degree than it actually is in the programs of other organizations. Whether this latter comment is completely correct remains to be seen, but it does appear to have some merit based on the CEMC literature. WEC has some concern about the exclusiveness of CEMC. It does not broadly distribute information and it will involve or recommend only its members in foreign sponsored projects.

WEC explained that pollution prevention centers should freely provide information to all and involve all appropriate organizations in environmental projects. It appears that CEMC members, as the financial supporters, want CEMC primarily to assist CEMC companies. Regardless of this, CEMC has an important base of support and can act as a pollution prevention center to that base with encouragement to try to reach out to others.

Some of its financial supporters, i.e., GES, Occupational Safety Institute, etc. could also become pollution prevention centers. They have indicated to WEC that they will widely disseminate information and seek broad involvement of

organizations in projects.

Saturday, February 5, 1994

Met with Mr. Vladimir Prchlik, President of the Czech Society for the Environment.

This organization has 500 individual members and other organizations as affiliates. It primarily organizes workshops and teaching programs. They are located in a building which houses various technical societies and has facilities for meetings and press conferences.

Mr. Prchlik wishes to be considered as a facilitator to help WEC organize the WMIP workshop. He has many years of experience and he appears to be a viable workshop organizer.

Sunday, February 6, 1994

WEC staff traveled to the Slovak Republic and met with Mrs. Olga Hauskrechtova, WEC Country Coordinator, and reviewed the agenda for the week.

Monday, February 7, 1994

WEC staff and the country coordinator met with Mr. Hejda, General Director of Chemia, which is the Slovak Association of Chemical Producers and the prime supporter of the Slovak Association of Industrial Ecology (ASPEK).

The WMIP for Slovakia was discussed in detail. During the week, WEC staff will meet with the General Director or his designee at meetings in Bratislava and in Svit.

Met with Mrs. Marcela Sajtlavova the new Director of the Department for Strategy and Economic Policy, Ministry of Economy, Mrs. Daniela Milova and Mr. Soltis from Mrs. Sajtlavova's staff. Explained the WMIP and received her support for the program. Mr. Sajtlavova advised that the Government of Norway was promoting waste minimization and asked if WEC would cooperate with the Norwegians. WEC said it would.

Met with Dr. Ladislav Miklos, Dean of the Ecology Department, Slovak Academy of Science and former Deputy Minister of the Environment. This was a courtesy visit and it provided the opportunity to inform Dr. Miklos about WEC activities and the possibility of the Academy becoming involved in the WMIP. Dr. Miklos advised that severe budget cuts have hampered the Academy's operation and indicated that its future is not promising at the present. He will keep WEC informed about the situation through Mrs. Olga Hauskrechtova.

Tuesday, February 8, 1994

Traveled to the Plastics Institute in Nitra. WEC staff gave a detailed presentation about WMIP to the attendees. The attendees are potential participants and represent some of the largest Slovak chemical companies. In addition to the representatives from the Plastics Processing and Application Research Institute (VUSAPL), other attendees represented:

Chemolak, a.s. Smolenice

Istrochem, s.p. Bratislava

Matador, a.s. Puchov

NCHZ Chemical Works, s.p. Novaky

Vusapl, s.p. Nitra Research Institute

Duslo, s.p. Sala

All attendees expressed interest in participating in the WMIP.

Mr. Mako, Duslo, advised that the Government of Norway trained 35 people in waste minimization and asked if they could be involved in the WMIP because they have not been able to use their training. WEC said it would try to use them but that the decision of which consultants would be allowed into the factories is up to the enterprises. Mr. Mako agreed. WEC thanked him for this information and said that when it distributes information about the WMIP, it could include the names of the people in the information to alert Slovak enterprises that there are available people now who have been trained in waste minimization. WEC will explore how these people could be used.

Wednesday, February 9, 1994

Met with Mr. L. Kovacs, General Director, Imuna, and volunteer President of ASPEK. Explained WEC programs. Mrs. Hauskrechtova briefed Mr. Kovacs about the Memorandum of Understanding between ASPEK and WEC.

Met with Mary Arndtsen, WEC sponsored advisor to the Ministry of Environment. Discussed the EPA proposed compliance program. Unfortunately, since WEC's last visit, no further action has been taken on this proposed program. WEC advised Ms. Arndtsen that at Mr. Hale's request, it has identified a Slovak company, Duslo, which is ready to participate in an experimental program involving compliance with proposed Slovak environmental regulations. Ms.

Arndtsen will follow-up with the Ministry of Environment.

During the meeting, Ms. Arndtsen contacted the OAR. She was informed that Mr. Schultz was out ill and did not see Mr. McGrath's name on the appointment schedule.

WEC staff briefly met with Mrs. Luba Zimanova and Carl Bro, Danish consulting engineers, working under a PHARE contract.

Thursday, February 10, 1994

Traveled to Sarisske Michalany to visit Mr. Kovacs, Imuna, his staff and tour the facility. Met with the Slovakian Government Representative to the Presov Region and members of his staff representing environmental, safety and health programs. The representative, Mr. Igor Mathe, stayed longer than planned and commented that he was very pleased to hear about the concrete programs of WEC. He said that many foreigners have visited the region and with the exception of some reports, there have been no valuable concrete programs initiated which has been a great disappointment to him. He was very pleased to hear about the USAID funded program of WEC and said he and his staff will follow it with great interest.

Traveled to the city of Svit for a meeting with companies that could participate in the WMIP.

Friday, February 11, 1994

Attended a meeting at Chemosvit in Svit of the following enterprises interested in the WMIP.

Chemes, s.p. Humenne

Chemko, s.p. Strazske

Petrochema, s.p. Dubova

PCHZ Chemical Works, Zilins

Slovnaft, a.s. Bratislava

Chemosvit, s.p. Svit

WEC staff was interviewed by Ms. Smihulova, Nezaviste Vydavatelstvo; a local newspaper reporter, on the purpose of the visit and WMIP. Ms. Smihulova commented that this was the first time she interviewed someone about the

environment who was presenting an optimistic view. Usually, she said, the interview is very pessimistic.

During the following discussion, Mr. Hyska, Chemco, and Mr. Surab, Petrochema, reported on the results to date of the Waste Minimization Demonstration Projects at their facilities.

Both praised the WMDP. Mr. Hyska reported that it appears that Chemco will realize savings of 3,500,000 SK (over \$100,000) with significant reduction of pollution.

Mr. Surab said that Petrochema had participated in a waste minimization project sponsored by the Danish Government. He said that the WEC project was the smoothest, best organized, and fastest project Petrochema has ever been involved in. He gave praise to and recommended the services of Radian, the WEC consulting firm directing the project.

All present indicated their enterprise would like to participate in the WMIP.

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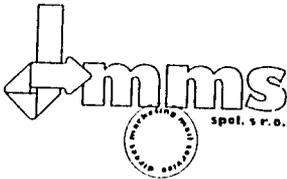


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