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RECORD

OF

US-USSR JOINT PROJECT GROUP MEETING ON PROJECT 11-3 STATINTL
"PLASTICS IN HYDROTECHNICAL CONSTRUCTION"

Denver, Colorado, USA

July 24, 1974

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- 1. In accordance with the US-USSR Agreement on Cooperation in the Fields of Science and Technology signed May 24, 1972, and the decisions of the US-USSR Joint Commission on Scientific and Technical Cooperation, and the results of discussions of the first meeting of the US-USSR Joint Working Group on Scientific and Technical Cooperation in the Field of Water Resources signed September 30, 1972, the meeting of the US-USSR Joint Project Group on Plastics in Hydrotechnical Construction was held in Denver, Colorado, July 22-24, 1974.
- 2. Project coordinators who headed US and USSR groups:
 For the US:
 - H. G. Arthur, Director of Design and Construction, Bureau of Reclamation

For the USSR:

P. B. Sviklis, Director of Latvian Research Institute
of Hydraulics and Reclamation of the
USSR Ministry for Reclamation and Water
Management

The list of participants is attached (Appendix No. 1).

- 3. The following items were discussed:
 - (1) Coordination of the detailed program of cooperation to be executed during the period of 1974-76
 - (2) Future trends in cooperation on the project
 - (3) Preliminary itinerary for the visit of the US group to the USSR in September 1974

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1. As a result of exchange of opinions and information on the activities carried on in each country in the field of plastics application in hydrotechnical construction, the two groups

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discussed forms and topics of cooperation and are considering the detailed proposals by the USSR group as a base for a Joint Program of work, specified according to priority, to be carried out for the period 1974-76. (Appendix No. 2)

This program may be supplemented by additional topics, and detailed priorities may be selected after the visit of the US group to the USSR.

- 2. Some of the categories of work listed in Appendix No. 2 were included in the Results of Discussions of the first meeting of the US-USSR Joint Working Group on Scientific and Technical Cooperation in the Field of Water Resources as Projects II-4 "Waterproofing of Joints," and II-5 "Polymer Concrete." Both groups find it advisable to cooperate in these endeavors as appropriate work under application of Plastics in Hydrotechnical Construction and hereby request the approval of the US-USSR Joint Commission on Science and Technology to include them in the present project. These items are categories of Work No. 2, 3, and 4 in Appendix No. 2.
- 3. The groups agreed that during the next meeting in the USSR a program for cooperative work for the period up to 1980 would be drafted, discussed and coordinated.
- 4. The itinerary for the visit of the US group to the USSR in September 1974 was discussed and agreed upon (Appendix No. 3). This will be finalized and confirmed by the USSR group and forwarded to the US group 30 days prior to its departure for the USSR.
- 5. The USSR group became acquainted with the work of some of the water resources and reclamation organizations and manufacturing firms. They observed technical solutions and practices used at a number of projects. Visits were made to the following organizations and project sites:
 - Agricultural Research Service Coastal Plains Research Center, (Florence, S.C.);
 - Visit to irrigated farms in the vicinity of Florence using modern irrigation and drainage practices;
 - Hancor, Inc., manufacturing corrugated plastic drainage tubing;
 - Arco Polymers, Inc., manufacturing polyethylene film;
 - Bureau of Reclamation Columbia Basin Irrigation Project;
 - Bureau of Reclamation Grand Coulee Dam and Third Powerplant construction site;
 - R & G Sloane Co., manufacturing plastic fittings for pipe;
 - Amoco Reinforced Plastics Company, manufacturing reinforced plastic mortar pipe;
 - Gifford-Hill and Company, Inc., manufacturing plastic pipe;

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 Tour of modern irrigated farms in the San Joaquin Valley utilizing plastic pipes;

• Bureau of Reclamation Engineering and Research Center visiting engineering laboratories and engaging in technical discussions on all work categories;

Expo '74 World's Fair, Spokane, Washington, visiting water resources and environmental exhibits

- 6. It is understood by the coordinators that financing of all activities associated with the joint works as provided by the program, be realized in accordance with the decisions adopted by the US-USSR Joint Commission on Science and Technical Cooperation.
- 7. The project coordinators and the participants of this joint meeting state with satisfaction that the talks were fruitful and held in the atmosphere of friendship and mutual understanding and initiated personal contacts that will contribute to further development and extension of cooperation in the field of plastics application in hydrotechnical construction.

The present document was signed on July 24, 1974, in two copies, English and Russian, both copies being equally valid.

P. B. Sviklis

USSR Project Coordinator

H. G. Arthur

US Project Coordinator

Approved For Release 2002/05/07 : CIA-RDP79-00798A000600100026-3 APPENDIX NO. 1

LIST OF PARTICIPANTS AT THE MEETING ON THE PROJECT 11-3 "PLASTICS IN HYDROTECHNICAL CONSTRUCTION"

USS	R G	ro	up:

P. B. Sviklis	Coordinator of the Project, Director of Latvian
	Research Institute of Hydraulics and Reclamation of
	the USSR Ministry for Reclamation and Water Management

A. I. Kharin	Deputy Director, Ukrainian Research Institute of
	Hydraulics and Reclamation of the USSR Ministry for
	Reclamation and Water Management

V. F. Blinov	Laboratory Chief, Research Industrial Corporation
	"Plastics," Ministry of Chemical Industry

S. F. Korbut	Secretary of working group on water resources.
	Administration for Scientific and Technical cooperation
	with foreign countries, USSR Ministry for Reclamation
	and Water Management

US Group:

н.	G.	Arthur	Coordinator of the Project, Director of Design and	
		,	Construction, Bureau of Reclamation	

W. J. Ochs	Water Management	Engineer	for I	Drainage,	Soil	Conservation
	Service	•				

R. E.	Philleo	Chi	lef, Concrete	Branch;	Office,	Chief	of	Engineers	3
			•						

J. P. McGarvey Technical Director - Film Operations, Arco Polymers, Inc.

Ray Durazo Executive Director, Plastics Pipe Institute

G. N. Thorsky Chief, Division of Engineering Support, Bureau of Reclamation

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Footnote: The Bureau of Reclamation will coordinate all categories of work, working with the U.S. Department of Agriculture, the Corps of Engineers, and the Society of Plastics constructing plast of water managemen membranes in const effective use of p linings in canals Design and technol under different en reservoirs. <u>e</u> Investigation Category of w

Industry.

APPENDIX NO. 2

JOINT PROGRAM OF WORK

OF THE USSR-USA WORKING GROUP ON PROJECT II-3 "FLASTICS IN HYDROTECHNICAL CONSTRUCTION" FOR 1974-1976 FOR SCIENTIFIC AND TECHNICAL COOPERATION

	CONSTRUCT	CONSTRUCTION FOR 19/4-19/0		
work	Activities in carrying out work by stages	Sponsors USSR USA*	Work comple- tion date (Quarter	Expected results
logy of tic film and	·		and year)	
ns of plastic		•		
truction	1. Exchanging scientific	Latvian	III, 1974	Reciprocal proposals on methods
nt systems	<pre>cecnnical information. 2. Exchanging investigation</pre>	Wersin.		of physical and mechanical
	methods for physical and	NIIG-M		properties of plastic membranes
	mechanical properties and			used in constructing seepage-
	aging processes of membranes. 3. Exchanging small quantities	•	1,1975	controiting ituings.
	of various plastic materials for physical and mechanical			<i>:</i>
	tests. 4. Conducting complex labo-		IV, 1975	
	ratory investigations and			
	working out technical re-			
	quirements of plastic mate- rials in use under differing			
	environments.			

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			of installing watertight plastic linings of canals and reservoirs.				Category of work
in USA	tions on construction and evaluation of results. 3. Study of construction technology of plastic membrane cut-offs, exchange of technical documents and work experience. 4. Discussion of results in improvements of installation technology for plastic watertight lining and plastic membrane cutoffs.	experimental projects in both nations with use of Soviet and American plastic membranes. Planning and joint consulta-	technical information on placement technology for plastic watertight linings. 2. Planning and construction in joint cooperation of	86 54	 6. Exchanging data on research equipment and technical documents on plastic film test methods. 7. Exchanging information 	5. Conducting technical investigations of performance of plastic materials under various climatic and soil conditions.	Activities in carrying out work by stages
			Ukrain. Northern NIIG-M	Latvien	in the		Sponsors USA*
II, 1975	II, 1975		II-IV, 1975	III, 1974		II, 1976	Work comple- tion date
			installation of soil-plastic and concrete-plastic linings; selecting the means of mechanization and fitting for membrane splicing	Recommendations on technology of		•	Expected results (Continued

in USSR

	Арр	roved E or	Release 2002	2/05/07 : Cl	A-RDP79-0 س	0 7 98A000	6001000)26-3 ⁸
•					Investigation of effective- ness of plastic pipes in drainage and irrigation structures.	(a) investigation of electiveness of chemical materials in soil stabilization.	Utili soil and e	Category of work
6. Investigation of more effective, economical filter envelopes for drainage pipes.	<pre>plastic pipes: -planning and joint consulta- tions on construction and evaluation of results</pre>	various environments. 5. Planning and constructing in joint cooperation experimental projects in both nations with use of Soviet and American	application of non-destruc- tive methods for quality control of plastic pipes. 4. Conducting detailed investigations of physical and mechanical properties considering their use under	2. Purchasing plastic pipes 2. Purchasing plastic pipes of differing technical para- meters (incl. porous), with required connection details. 3. Exchanging information and technical documents on	ng scienti formation, itructions pes in dr includ pes for d	compounds for earth stabilization. 2. Exchange of opinions on basic trends of work to be jointly done.	1. Exchanging scientific technical information on application of stabilizing and feature forming chemical	Activities in carrying out work by stages
in H	7	e can		•	fic stand-Latvian on use Northern ainage VNIG-Ming		Latvian Ukrain. NIIG-M	Sponsors USSR USA*
III,1976	'YY, 1975		II, 1975 III, 1976	1, 1975	IV, 1974	III, 1975	IV, 1974	Work comple- tion date
				tective filters, and construction.	Recommendations on rational application of different types of plastic pipes in drainage and irrigation structures. Improved methods for pipe joining, pro-		Recommendations on selection and use of chemical materials for soil stabilization.	Expected results (Continued)

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100026-3	Category of work
4	Utilization of polymer- concrete in wear and cavita- tion resisting linings in
	hydraulic structures, and also in repairs of concrete units. (a) Investigation of polymer impregnated concrete (polymer-
	concrete).

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9-0 07 9 ₹	Category of work	Activities in carrying out work by stages	Sponsors USSR USA	Work comple-	Expected results (continued)
279	(b) Investigation of polymer	1. Conducting investigations	Latvian	IV, 1974	Recommendations on the use of
RDF	concrete: (concrete with	of prototype polymer repair	Ukrain.		polymeric compositions in
-R	polymer as the cementing	compositions.	NIIF-M		repairing hydraulic structures.
Α	agent)	2. Preparation of a manual		IV, 1975	Recommendation on the use of
CI	•	on execution of repairs	•		resins in repair of concrete
:	• .	with use of polymer compo-			elements of hydraulic structures.
17		sitions. Exchange of techni-			
i/0		cal documents on execution			
05		of repair works.		٩	
2/		Conducting laboratory		III, 1976	Recommendations on the use of
00	•	investigations of polymer-		1	polymer concretes with various
20		concretes with various			resins for protection of hydro-
е	•	resins and working out			structures against wear and
as	•	designs of prefabricated			cavitation.
ea	-	polymer-concrete lining of			
≀e		structures.			
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APPENDIX NO. 3

PRELIMINARY ITINERARY FOR THE VISIT OF US GROUP ON "PLASTICS IN HYDROTECHNICAL CONSTRUCTION" TO THE USSR

Time of stay: September 12-29, 1974

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September 12 Thursday	Arrive Moscow via Air France 724 from Paris - Accomodation
September 13 Friday	Conversation at the USSR Ministry for Reclamation and Water Management - Departure to Kiev
September 14 Saturday	Visit to Ukrainian Research Institute for Hydraulic Engineering and Reclamation discussion on polymer application
September 15 Sunday	Kiev - Sightseeing
September 16 Monday	Kiev - Familiarization with the work of the Ukrainian Design Water Resources Project Institute (Ukrgiprovodkhoz) and visit to the Research Institute of Building Industry
September 17 Tuesday	Kakhovka - Field trip to Kakhovka irrigation system (head structure)
September 18 Wednesday	Inspection of canal sections using different seepage control methods
September 19 Thursday	Arrive at Kherson and flight to Leningrad
September 20 Friday	Leningrad - Familiarization with the results of scientific research at the Northern Research Institute for Hydraulic Engineering and Reclamation
September 21 Saturday	Leningrad - Field trip to water resources project sites near Leningrad
September 22 Sunday	Leningrad - Sightseeing
September 23 Monday	Flight to Riga - Sightseeing
September 24	Technical discussions on the project items

Tuesday

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September 25 Wednesday	Technical discussions and preparation of the draft for the joint general program up to 1980 - Departure to Moscow
September 26 Thursday	Moscow - Coordination of the draft with the US Embassy
September 27 Friday	Moscow - Signing the agreement and VDNKh sight- seeing
September 28 Saturday	Moscow - Sightseeing
September 29 Sunday	Departure to US via PA 45 to New York City