

PROJECT APPRAISAL REPORT (PAR) TERMINAL

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1. PROJECT NO. 489-22-220-663	2. PAR FOR PERIOD: Jan. 77 TO Sept. 77	3. COUNTRY Korea	4. PAR SERIAL NO. 1978-1
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5. PROJECT TITLE
2nd Transmission and Distribution Project

6. PROJECT DURATION: Began FY 68 Ends FY 77	7. DATE LATEST PIP 1966 CAP	8. DATE LATEST PIP	9. DATE PRIOR PAR Jan. 1977
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10. U.S. FUNDING	a. Cumulative Obligation Thru Prior FY: \$ 10,637,307	b. Current FY Estimated Budget: \$ -0-	c. Estimated Budget to completion After Current FY: \$ -0-
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11. KEY ACTION AGENTS (Contractor, Participating Agency or Voluntary Agency)	
a. NAME The Okonite Company	b. CONTRACT, PASA OR VOL. AG. NO. Contract Loan No. 489-H-047

I. NEW ACTIONS PROPOSED AND REQUESTED AS A RESULT OF THIS EVALUATION

A. ACTION (X)			B. LIST OF ACTIONS	C. PROPOSED ACTION COMPLETION DATE
USAID	AID 'W	HOST		
			No actions are proposed.	

D. REPLANNING REQUIRES REVISED OR NEW: <input type="checkbox"/> PROP <input type="checkbox"/> PIP <input type="checkbox"/> PRO AG <input type="checkbox"/> PIO/T <input type="checkbox"/> PIO/C <input type="checkbox"/> PIO/P	E. DATE OF MISSION REVIEW September 13, 1977
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PROJECT MANAGER: TYPED NAME, SIGNED INITIALS AND DATE James R. Callaway <i>JRC</i> 11/2/77	MISSION DIRECTOR: TYPED NAME, SIGNED INITIALS AND DATE Dennis P. Barrett
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II. PERFORMANCE OF KEY INPUTS AND ACTION AGENTS

A. INPUT OR ACTION AGENT CONTRACTOR, PARTICIPATING AGENCY OR VOLUNTARY AGENCY	B. PERFORMANCE AGAINST PLAN							C. IMPORTANCE FOR ACHIEVING PROJECT PURPOSE (X)				
	UNSATISFACTORY		SATISFACTORY			OUTSTANDING		LOW		MEDIUM		HIGH
	1	2	3	4	5	6	7	1	2	3	4	5
1. The Okonite Company				X						X		
2.												
3.												

Comment on key factors determining rating

The Okonite Company was the supplier of materials for the underground oilostatic cable transmission system and provided technical representatives to oversee fabrication and installation. Relations with Host Country officials remained good throughout the project.

4. PARTICIPANT TRAINING	N.A.														
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Comment on key factors determining rating

5. COMMODITIES				X											
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Comment on key factors determining rating

There were delays in both procurement and installation during earlier stages, but the project was completed prior to the TDD of June 30, 1977.

6. COOPERATING COUNTRY	a. PERSONNEL				X										
	b. OTHER														

Comment on key factors determining rating

There were no changes in KECO personnel during this terminal phase of the project and cooperation of other Host Country agencies was satisfactory.

7. OTHER DONORS	N.A.														
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II. 7. Continued: Comment on key factors determining rating of Other Donors

III. KEY OUTPUT INDICATORS AND TARGETS

A. QUANTITATIVE INDICATORS FOR MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					END OF PROJECT
		CUMU- LATIVE PRIOR FY	CURRENT FY		FY ____	FY ____	
			TO DATE	TO END			
Engineering Services 1 Subproject	PLANNED	1	-	-	-	-	1
	ACTUAL PERFORM- ANCE	1	1				
	REPLANNED						
Substation Equipment 16 Subprojects	PLANNED	16	-	-	-	-	16
	ACTUAL PERFORM- ANCE	14	16				
	REPLANNED						
Distribution Conversion 14 Subprojects	PLANNED	14	-	-	-	-	14
	ACTUAL PERFORM- ANCE	14	-				
	REPLANNED						
Transmission Material 4 Subprojects	PLANNED	4	-	-	-	-	4
	ACTUAL PERFORM- ANCE	3	4				
	REPLANNED						
B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS	COMMENT:						
1.							
2.	COMMENT:						
3.	COMMENT:						

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IV. PROJECT PURPOSE

1. Statement of purpose as currently envisaged.

2. Same as in ~~EXHIBIT~~ CAP YES NO

The purpose of the project was to expand and improve Korea Electric Company's transmission and distribution system.

B. 1. Conditions which will exist when above purpose is achieved.	2. Evidence to date of progress toward these conditions.										
<p>Increased availability and improved reliability of electric power for industrial growth and private consumption.</p>	<p>1. TRANSMISSION & SUB-STATIONS Increased Power Supply to:</p> <table border="0"> <tr> <td>a. Downtown Seoul</td> <td>160,000 KVA</td> </tr> <tr> <td>b. Kangnam & Seoul-Inchon Areas</td> <td>270,000 KVA</td> </tr> <tr> <td>c. Yongnam Industrial Area</td> <td>93,300 KVA</td> </tr> <tr> <td>d. Downtown Busan</td> <td><u>12,000 KVA</u></td> </tr> <tr> <td></td> <td>Total: 535,300 KVA</td> </tr> </table> <p>2. DISTRIBUTION</p> <p>a. Reduced average voltage drop from 16% (pre-project) to 5%</p> <p>b. Power loss savings of 15,400,000 KWH/YR</p>	a. Downtown Seoul	160,000 KVA	b. Kangnam & Seoul-Inchon Areas	270,000 KVA	c. Yongnam Industrial Area	93,300 KVA	d. Downtown Busan	<u>12,000 KVA</u>		Total: 535,300 KVA
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	Total: 535,300 KVA										

V. PROGRAMMING GOAL

A. Statement of Programming Goal

To develop a transmission and distribution system adequate to effectively utilize KECCO's increasing power generation capability.

B. Will the achievement of the project purpose make a significant contribution to the programming goal, given the magnitude of the national problem? Cite evidence.

Although there are still areas in South Korea that lack adequate and reliable sources of power, execution of this project has made a significant contribution towards improvement. Because of delays however and the inordinate length of time necessary for completion, KECCO is still faced with an urgent need for additional expansion in both generation and distribution.

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