

PD-AAR-857

53

low 41490

MONTHLY PROGRESS REPORT  
SEPTEMBER, 1981

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Monthly Progress Report  
 Arab Potash Project  
 September, 1981

1.0 SUMMARY

1.1 Project Milestones	<u>Scheduled Date</u>	<u>Actual Date</u>
Contract Signing	5 Nov 77	5 Nov 77
Review of Feasibility Report	26 Jan 78	26 Jan 78
Advertise for Refinery Equipment	15 Feb 78	1 Feb 78
Presentation to Lenders - Amman	11 Apr 78	11 Apr 78
Town Site Contract Award	1 May 78	4 May 78
Approval of Solar Pan Construction Tender Documents	-	2 June 78
Townsite Contractor starts Mobilizing	-	7 June 78
Solar Pan Construction Tender Inquiry Issued	1 Aug 78	28 June 78
Solar Pan Contract Bids due	4 Oct 78	4 Oct 78
Advertise Power Plant Contract	14 Oct 78	16 Oct 78
Definitive Estimate Due	31 Dec 78	1 May 79
Solar Pan Contract Award	1 Jan 79	13 Jan 79
Solar Pan Contractor starts mobilizing	1 Feb 79	15 Jan 79
Approval of Refinery Mechanical Construction Tenders (Pre-Qualification)	1 Mar 79	12 Apr 79
Approval of Power Plant Construction Tenders (Pre-Qualification)	23 Feb 79	20 Mar 79
Refinery Mechanical Tender Inquiry Issued	5 Apr 79	10 May 79
Power Plant Contract Bids Due	7 July 79	7 July 79
Refinery Contract Bids Due	15 Aug 79	1 Oct 79
Refinery Contract Award	15 Dec 79	17 Jan 80
Power Plant Contract Award	15 Dec 79	11 Jan 80

Monthly Progress Report  
Arab Potash Project  
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1.0 SUMMARY - Continued

## 1.1 Project Milestones - Continued

	<u>Original Scheduled Date</u>	<u>Current Forecast Date</u>	<u>Actual Date</u>
Refinery Contractor Letter of Intent	15 Dec. 79		17 Jan 80
Refinery Contractor Starts Construction	1 Apr. 80		15 May 80
Power Plant Contractor Starts Construction	1 May 80		1 Oct 80
Screening & Compaction Erection Contract Award	30 Oct. 80		26 Jan 81
Power Plant Mechanically Complete	1 Dec. 81	17 Jan 82	
Screening & Compaction Erection Mechanically Complete	1 Dec. 81	17 Mar 82	
Refinery Complete	17 Jan. 82	17 Mar 82	

Township

Housing - Lot 1	1 Feb 79		15 Jul 79
Housing - Lot 2	1 Jul 79		15 Feb 79
Housing - Lot 3	1 Feb 80		30 Apr 81
Housing - Lot 4	1 Jun 80	15 Sep 81	

Solar Pans (Partial completion for pan filling)

Salt Pan	1 Feb 81		20 Mar 81
PC-1	1 Mar 81	1 Dec 81	
PC-2	1 Apr 81		18 Mar 81
C-1	1 May 80		8 Apr 80
C-2	1 Apr 81		2 Feb 81
C-3	1 Apr 82	1 Apr 82	

Start-up ScheduleStart Carnallite Deposition

C-1	1 Aug 81	1 Apr 82
C-2	1 Aug 82	1 Oct 82
C-3	1 Aug 83	1 Oct 83

Product Test Runs\*

75% Test Run	1 Feb 83	1 Jun 83
100% Test Run	1 Nov 83	1 Jan 84

\*These dates based on assuming start of carnallite precipitation in accordance with above schedule.



1.3 Status of Project

JIL

Main input from Dublin office was in the area of replying to various queries from site.

The compilation of data books made good headway during the month with receipt of most of the outstanding documents from vendors. (excluding Contract No. 10). Information/data from Westinghouse end Screening and Compaction plant are still causing some holdup. Nevertheless it is still proposed to complete ten (10) books by end of October.

Order for Product Haulage trucks was released to Mack by client during the month.

Harvester barge has arrived on site and was being prepared for inspection and launch at month end.

At the end of September the refinery works was 69.2% complete.

AGP

At month end the progress of work by Sir Alexander Gibb and Partners in terms of man months expenditure was approximately as follows:-

Ratio of man months expenditure to end of August 1981  
to total man months expenditure programmed. 86%

Estimated ratio of man months expenditure to end of  
September, 1981 to total man months expenditure  
programmed. 87%

2.0 ENGINEERING AND DESIGN

2.1 JIL - Dublin

2.1.1 Project Engineering

Projects group continued to answer questions originating in the field. Another area being pursued was the compilation of data books and the expediting of outstanding vendor drawings and data.

2.1.2 Instrumentation Design

A site request for two new thermowells for TV-12000 and 1204 was fulfilled recently. They were hand carried to site by Jim Cullen on 11th October.

No additional work being undertaken at month end.

2.0 ENGINEERING AND DESIGN - Continued

2.1.3 Piping and Mechanical Design

All involvement now being undertaken on site by assistant dept. head. No drafting work in progress.

2.1.4 Civil/Structural Design

Replied to site queries - otherwise no design work in hand.

2.1.5 Electrical Design

The main area of activity during the month concerned checking the quantities of materials submitted by Balfour Kilpatrick for the Screening and Compaction Plant, Addendum No. 4. A meeting was held during the last week of the month at which all material take-off quantities were agreed to.

2.1.6 Building Services Design

The fire protection requirements in the "E-House" buildings were investigated. Discussions took place with the Structural and Architectural Depts. re same.

2.1.7 Architectural Design

Regular telex query/reply service maintained with VA/BB. Details of handrails in Maintenance Building agreed. Details of facia to facilities Annex Maintenance Building issued to VA/BB. Sketch details of facia to E-House 4 issued to VA/BB. Substitution of 'Tyrolean' plaster finish for 'Audex' plaster agreed for Administration Building. Joinery details for Administration Building marked up and returned to BB. Road signs agreed for plant with VA/BB. All subcontractors/suppliers drawings marked up and returned.

2.2 AGP - Reading

2.2.1 Contract No. 2 - Permanent Township

Nothing to report.

2.2.2 Contract No. 3 - Solar Evaporation System

No details available at completion time of this report.

Monthly Progress Report  
Arab Potash Project,  
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3.0. CARNALLITE HARVESTING

Salt bottom testing continued in Pan C-1. Salt thickness of 280-310mm was found throughout the pan with exception of the area of brine intake. A report on the salt bottom should be prepared by IIRS in early October, 1981.

Harvester barge (No. 1) arrived at Aqaba and was transported to site. Some Difficulties were experienced at Numiera and at dikes. Barge ready for launch after inspection at month end.

4.0 PROCUREMENT - JIL

The following Purchase Orders are complete and 100% payment has been made:-

01-1	Centrifugal Pumps	- Mather & Platt
01-2	Rotary Pumps	- Mirrlees
01-3	Fire Pump	- Aurora
01-5	Slurry Booster Pumps	- Simon Warman
04-1	Thickener Mechanism	- Esmil
05-1	Agitators	- Philadelphia Gear
16-1	Crystallizer System	- Whiting Vermont
18-1	Cooling Towers	- Marley International
21-2	Centrifuges	- Bird Machine Company
21-4	Centrifuges	- Bird Machine Company
22-1	Sylvinite Belt Filters	- Eimco
23-3	Tails Hydrocyclones	- Krebs
25-1	Product Dryer	- Allis Chalmers
29-1	Wet Mechanical Handling	- Precismeca
29-2	Screening & Compaction	- Krupp
34-1	Truck Scales	- Pfister
39-3	Pipeline pontoons	- GPE
40-6	Condensate Pump Set	- Worthington - Simpson
58-2	Maintenance Building	- Ward Bros.
64-64	Tension Capsule	- Macklow Smith
83-2	Maintenance Drill	- Carelius

Monthly Progress Report  
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 September, 1981

4.0 PROCUREMENT - JIL - Continued

Status of Remaining Purchase Orders

01-4 Process Slurry Pumps - Worthington Canada

Last two pumps on Amendment No. 4 are scheduled for early October, 1981 and are due to arrive in Aqaba mid November, 1981.

11-2 Plate Heat Exchanger - Alfa Laval

Frames and 95% of plate have been delivered. The remaining 5% of plate is now scheduled for delivery in February, 1982.

23-2 Product Hydrocyclones - Dorr Oliver

All equipment has been delivered to site. Final payment has not yet been approved as there are technical documents still outstanding.

49-23 Work Boats - Arklow Eng.

First boat is 95% complete and trials are scheduled for mid October.

64-15 Process Instruments - Foxboro

64-44 Telemetering - Telectron

Equipment is now complete and testing is scheduled for early October, 1981.

64-45 Control Valves - Fisher Controls

Last two (2) valves purchased an amendment No. 5 are scheduled for shipping December, 1981.

65-4 Electrical Switchgear - Westinghouse

Equipment purchased on the original P.O. have been delivered - there remains replacement parts on Amendment No. 6.

\* - A.P.C.  
 \*\* - SELLER

PURCHASE ORDER STATUS REPORT

ATTACHMENT NO. 6

PURCHASE ORDER NO.	NAME OF SELLER	DATE P.O. SENT TO A.P.C. FOR SIGNING	DATE SIGNED P.O. RET'D FROM A.P.C. & ISSUED TO SELLER	DATE COUNTER-SIGNED COPY OF P.O. REC'D FROM SELLER	SIGNED COPY OF P.O. SENT TO A.P.C.	GUARANTEE'S			REMARKS
						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-01-1 Amendment 2	Mather & Platt Ltd. Mather & Platt Ltd.	11.6.1979 Signed in Dublin office 11.01.1980.	12.6.1979  ** mailed 16.1.'80	30.7.1979  20.5.1980	1.8.1979  23.5.'80				Mailed --
08-1875-01-2 Amendment 2	Mirrlees Pumps Ltd. Mirrlees Pumps Ltd.	21.4.1979 Signed in Dublin office 11.01.1980	2.5.1979  ** mailed 16.1.'80	24.7.1979  30.1.1980	1.8.1979  1.2.1980				By Courier --
08-1875-01-3 Amendment 3	Aurora Pump	Signed in Dublin Office April 1979  12.3.81	20.4.1979  20.3.1981	30.4.1979	29.6.1979				

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-01-4	Worthington (Canada)	11.6.1979	12.6.1979	6.7.1979	1.8.1979				
Amendment 2	Worthington (Canada)		18.6.1979	9.11.1979	13.11.1979				Courier to Seller
Amendment 3	Worthington (Canada)	Signed in Dublin Office 11.01.1980	** mailed 16.1.'80	10.3.1980	13.3.1980				Courier to APC
Amendment 4	Worthington (Canada)	30.6.1980 Courier	* 14.7.1980 ** 15.7.1980	25.9.1980	26.9.1980				
Amendment 5	Worthington (Canada)	13.8.1980 Courier.	* 9.9.1980 ** Courier 9/9/80	25.9.1980	26.9.1980				Courier
6	" "	4.9.1981							

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-01-5	Simon-Warman Ltd.	Hand Carried to APC by MMF 11.11.1979	22.11.1979 Ret'd 23.11.1979 Seller	10.12.1979	11.12.'79				
Amendment 2	Simon-Warman Ltd.	Dublin Office Signed, 11.01.1980	** mailed 16.1.'80	25.1.1980	28.1.1980				Mailed to APC

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-04-1	Esmil Envirotech Ltd.	Signed in Dublin Office April 1979	20.4.1979	24.5.1979	1.8.1979				
Amendment 2	Esmil Envirotech Ltd.	Signed in Dublin Office 11.01.1980	** mailed 16.1.'80	25.1.1980	28.1.1980				Mailed to APC
Amendment 3	Esmil Envirotech Ltd.	30.6.1980 Courier	* 14.7.1980 ** 15.7.1980	23.7.1980	29.7.1980				
Amendment 4	" "	13.5.1981	25.5.1981						
Amendment 5	" "	11.6.1981 re-issued 30.6.1981	ret'd: 20.7.81 issued: 24.7.81	30.7.1981 30.7.1981	Both 6.8.1981				

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-05-1	Philadelphia Gear Middle East Corp.	3.5.1979	9.5.1979	31.5.1979	29.6.1979				
Amendment 2	Philadelphia Gear	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	28.2.1980	29.2.1980 Courier				
08-1875-11-2	Alfa-Laval AB	21.4.1979	2.5.1979	24.5.1979	29.6.1979				
08-1875-16-1	Whiting-Fermont	11.5.1979	12.6.1979	9.8.1979	23.8.1979				
Amendment 2	Whiting-Fermont	8.8.1979	5.9.1979	12.9.1979	7.9.1979				
Amendment 3	Whiting-Fermont	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	28.01.1980	1.02.1980				By Courier
Amendment 4	Whiting-Fermont	12.5.1980 Courier	4.6.1980	11.6.1980	13.6.1980				Courier

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PURCHASE ORDER NO.	NAME OF SELLER	DATE P.O. SENT TO A.P.C. FOR SIGNING	DATE SIGNED P.G. RET'D FROM A.P.C.* & ISSUED TO SELLER	DATE COUNTER-SIGNED COPY OF P.O. REC'D FROM SELLER	SIGNED COPY OF P.O. SENT TO A.P.C.	GUARANTEE'S			REMARKS
						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-18-1	Marley International Inc.	Signed in Dublin Office April 1979	20.4.1979	24.5.1979	1.8.1979				
Amendment 3	Marley Inter. Inc.	Hand Carried to APC by MMF 11/11/'79	* 4.12.1979 Courier 5.12.1979	25.2.1980	25.2.1980 Courier				Letter of Credit enclosed with purchase order
08-1875-21-2	Bird Machine Co.	3.5.1979	9.5.1979	August '79	1.8.1979				
Amendment 3	Bird Machine Co.	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	25.2.1980	25.2.1980 Courier				

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-21-4	Bird Machine Co.	3.5.1979	9.5.1979	August '79	1.8.'79				
Amendment 3	Bird Machine Co.	21.12.1979 Courier	* 9.1.1980 10.1.1980	29.01.1980	29.01.1980				By Courier
Amendment 4	Bird Machine Co.	Signed in Dublin office 11.01.'80	** mailed 16.1.'80	4.02.1980	8.02.1980				By Courier
08-1875-22-1	Eimco Process Mach. Division.	3.5.1979	9.5.1979	18.6.'79	1.8.'79				
Amendment 3	Eimco Process Mach.	Signed in Dublin office 11.01.'80	** mailed 16.1.'80	8.4.1980	10.4.1980 Courier				
08-1875-23-2	Dorr-Oliver Inc.	Signed in Dublin Office April 1979	20.4.1979	14.5.'79	1.8.'79				
Amendment 3	Dorr-Oliver Inc.	26.10.1979	15.11.1979	20.12.1979	21.12.1979 Courier				

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-25-1	Allis-Chalmers	15.6.1979	20.6.1979	3.10.1979	5.10.'79				Hand Carried to A.P.C. by M.E.
Amendment 2	Allis-Chalmers	3.10.1979	16.10.1979		5.10.'79				Telex from APC (courier to Seller)
3	Allis-Chalmers	11.3.1980 Courier	* 25.3.1980 ** 27.3.1980	15.4.1980	25.4.1980				
4	Allis-Chalmers	25.3.1980 Courier	* 8.4.1980 ** 9.4.1980	15.4.1980	25.4.1980				
5	" "	12.3.81	** 20.3.1981	20.3.1981	2.4.1981				
6	" "	4.9.81							
08-1875-29-1	Precismeca S.A.	9.7.1979	25.7.1979	21.9.'79	25.9.'79				Hand carried to A.P.C.
Amendment 2	Precismeca S.A.	5.9.'80 Courier	* 25.9.1980 ** 26.9.1980 Courier.	14.10.'80	17.10.80 Courier				
08-1875-29-2	Freid Krupp Gmbh (Draft Purchase Order)		By courier to Seller 20.12.1979						
08-1875-29-2	Fried Krupp Gmbh	25.01.1980 Courier	* Returned 12/2/80 ** Courier 14/2/80	20.2.1980	21.2.1980 Courier				
Amendment 2	Fried Krupp Gmbh	12.5.1980 Courier	** 29.5.1980	23.6.1980	27.6.1980				

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-0875-29-2 Amendment 3	Fried Krupp GMBH	22nd. July 1980	* 9.9.1980 ** Hand Carried 9.9.1980 (F.K.)	15.9.1980	16.9.1980 Courier				

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-34-1	Pfister Waagen Gmbh	11.6.1979	12.6.1979	25.9.1979	27.9.'79				
Amendment 2	Pfister Waagen Gmbh	9.7.1979	25.7.1979	25.9.1979	27.9.'79				
Amendment 3	Pfister Waagen Gmbh	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	4.02.1980	8.02.1980				By Courier
08-1875-39-1	Rahco Disc Inc.	Signed in Washington Sept.13th.'79	Issued to Seller at meeting in Washington	13.9.1979	20.9.'79				
Amendment 1	Rahco Disc Inc.	12.9.1980 Courier.	***		Amendments 1 & 2 sent to APC by courier 14.5.1981				***Amendments 1& 2 re-issued to AK-2nd April 1981 by courier to be re-signed
Amendment 2	Rahco Disc Inc.	7.11.1980 Hand Carried (MMF)	5.12.1980 Amendts., 1 & 2 rec issued to Vendor by 8.10.1979	13.4.81 courier 12.10.1979	18.10.'79 for signature				
08-1875-39-3	GPE Teo Ltd.	Hand carried to APC by DG							
Amendment 2	GPE Teo Ltd.	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	31.01.1980	1.02.'80				By Courier

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-39-4	Rahco Disc. Inc.	Signed in Amman Jordan 18.1.1981	Signed in Amman 18.1.1981	-	27.1.1981				
08-1875-39-4-1	Rahco DISC Inc., Amendment No. 1	4.3.1981	P.O. to Seller By Hand (XB) 26.2.1981	11.3.1981	already issued				
08-1875-39-4-2	Amendment No. 2	2.4.1981	13.4.1981 by courier to Rahco same date. Signed in AMMAN by both parties retd. 2.6.81	-	16.7.1981 by Courier				
08-1875-39-5	Rahco DISC	7th May, 1981 by Courier  p.o. re-issued - hand carried by Rahco personnel to APC-15.5.1981	Ret'd by courier 13th May, 1981- issued to Rahco 14th May 1981 at Merrion House.						

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						PERFORMANCE GUARANTEE FOR 10*	BANK GUARANTEE FOR 15*	BANK GUARANTEE FOR 25*	
49-23	Arklow Engineering Co	9.7.81 by courier	ret'd: 20.7.81 issued: 24.7.81	29.7.1981	30.7.1981 by courier				

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-40-6	Worthington-Simpson Ltd.	3.5.1979	9.5.1979	18.5.1979	29.6.1979				
08-1875-58-2	Ward Brothers (Sherburn) Ltd.	9.7.1979	25.7.1979	8.8.1979	23.8.1979				Mailed to APC
Amendment 2	Ward Brothers.	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	25.01.1980	28.01.1980				
Amendment 3	Ward Brothers	5.11.1980 Courier	* 12.1.1981 ** 13.1.1981	2.2.1981	3.2.1981				
08-1875-64-15	Foxboro-Yoxall Ltd.	22.6.1979	(1) 25.7.1979 (2) 20.8.1979	21.9.1979	21.9.1979				
08-1875-64-15 Amendment 2	Foxboro-Yoxall Ltd.,	14.11.80 Courier	* 23.11.1980 **25.11.1980	1.12.1980	1.12.1980 Courier				
Amendment 3	Foxboro-Yoxall Ltd.,	15.5.1981 by courier	Hand Carried 25.5.1981	25.6.81	30.6.81 by courier				

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\* = A.P.C.  
 \*\* = SELLER

PURCHASE ORDER STATUS REPORT

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ATTACHMENT NO. 6

PURCHASE ORDER NO.	NAME OF SELLER	DATE P.O. SENT TO A.P.C. FOR SIGNING	DATE SIGNED P.O. RET'D FROM A.P.C. & ISSUED TO SELLER**	DATE COUNTER-SIGNED COPY OF P.O. REC'D FROM SELLER	SIGNED COPY OF P.O. SENT TO A.P.C.	GUARANTEE'S			REMARKS
						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-64-45	Fisher Controls Ltd.	9.7.1979	25.7.1979	2.01.1980					
Amendment 3	Fisher Controls	By Courier 13.11.1979	* 4.12.1979 Courier 4.12.79		2.01.'80 Courier				
Amendment 4	Fisher Controls	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80						
Amendment 5	Fisher Controls	24.4.81 by Courier	Issued to seller 4.4.1981	11th May '81	14.5.1981 by courier				
08-1875-65-4	Westinghouse Electric	By Courier 13.11.1979	* 4.12.1979 Courier 5.12.1979	10.1.1980	11.1.1980				
08-1875-65-4	Westinghouse Electric	Signed in Dublin Office 10.1.1980	Signed in Dublin Office 10.1.80 **	10.1.1980	11.1.1980				
Amendment 3	Westinghouse Electric	By Courier 27.3.1980	* 9.4.1980 ** 11.4.1980	22.4.1981	25.4.1981				
Amendment 4	Westinghouse Electric	By Courier 26.9.1980	* 13.10.1980 **14.10.1980 Courier	22.4.1981	25.4.1981				
Amendment 5	Westinghouse Electric	25.11.1980	* 8.12.1980	22.4.1981	25.4.1981				
Amendment 6	" "	Courier 16.7.1981	** 12.12.1980						
" 7	" "	by Courier 20.8.1981	24.8.81** ditto 11.9.1981						

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\* = A.P.C.  
 \*\* = SELLER

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ATTACHMENT NO. 8 6

PURCHASE ORDER NO.	NAME OF SELLER	DATE P.O. SENT TO A.P.C. FOR SIGNING	DATE SIGNED P.O. RET'D FROM A.P.C. & ISSUED TO SELLER	DATE COUNTER-SIGNED COPY OF P.O. REC'D FROM SELLER	SIGNED COPY OF P.O. SENT TO A.P.C.	GUARANTEE'S			REMARKS
						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-23-3	Krebs Engineers Int	30.4.'80 by Courier	* 14.5.1980 ** 15.5.1980 By Courier	27.5.1980	28.6.1980				
08-1875-64-44	Telectron Instrumentation Systems Ltd.	9.5.1980 Courier.	* 23rd. May 1980 ** 29th. May 1980	17th. June '80	18th. June 80				

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PURCHASE ORDER NO.	NAME OF SELLER	DATE P.O. SENT TO A.P.C. FOR SIGNING	DATE SIGNED P.O. RET'D FROM A.P.C. & ISSUED TO SELLER	DATE COUNTER- SIGNED COPY OF P.O. REC'D FROM SELLER	SIGNED COPY OF P.O. SENT TO A.P.C.	GUARANTEE'S			REMARKS
						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-64- 65	A. Macklow-Smith	issued to APC 7th May 1981 by courier	received from APC 13th May 1981, issued to Macklow Smith 14.5.1981						
08-1875-83-2	Craellius Co.,	11.6.1981							

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