

PDHAR-856

53

12.11-41489

MONTHLY PROGRESS REPORT
JULY, 1981

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Monthly Progress Report
 Arab Potash Project
 July 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
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July, 1981

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 Mar 82	
Screening & Compaction Erection Mechanically Complete	1 Dec. 81	17 Jan 82	
Refinery Complete	17 Jan. 82	17 Mar 82	
<u>Township</u>			
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	
<u>Solar Pans (Partial completion for pan filling)</u>			
Salt Pan	1 Feb 81		20 Mar 81
PC-1	1 Mar 81	1 Apr 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	
<u>Start-up Schedule</u>			
<u>Start Carnallite Deposition</u>			
C-1	1 Aug 81	1 Dec 81	
C-2	1 Aug 82	1 Oct 82	
C-3	1 Aug 83	1 Oct 83	
<u>Product Test Runs*</u>			
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.

1.0 SUMMARY

1.3 Status of Project

JIL

Technical bid analysis for the Product Haulage Trucks was completed. This is the only outstanding purchase order on the project. As the workboats purchase order was issued during the month.

The additional temporary brine supply line was commissioned as the diesel engine driven pump. Brine was pumped into C1 and C2 to continue salt laying in both these pans.

Progress was maintained on the Refinery. Main problem areas presently are the delay being experienced by Voest-Alpine/Balfour Beatty in getting access to the dikes for pipe-laying, and also the delays at Aqaba port. The Screening and Compaction plant continued to progress and the Product Storage Building Steel was being erected by the end of the month.

Purchase orders for spare parts of employer-furnished equipment continue to be issued by APC after receiving recommendations from the Jacobs OMT group at site.

At the end of July the Refinery Works was 47.9% 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 June 1981 to total man months expenditure programmed. 83%

Estimated ratio of man months expenditure to end of July, 1981, to total man months expenditure programmed. 84%

2.0 ENGINEERING AND DESIGN

2.1 JIL - Dublin

2.2.1 Project Engineering

The preliminary technical bid analysis on the Product Haulage Trucks (IFB 49-16) was completed and issued to APC. Meetings were held with Mack Trucks and with Challenge-Cook Bros. whose trailers are included in the Mack and Paccar bids.

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2.0 ENGINEERING AND DESIGN - Continued

2.1.1 Project Engineering - Continued

The purchase order on the Workboats (IFB 49-23) was completed and issued to APC for signature.

Quotation from VA on the Screening and Compaction plant were dealt with. Drawings from VA on the maintenance building storage racks were reviewed and approved.

Work is in progress on the preparation of data books for the employer furnished equipment.

2.1.2 Instrumentation Design

Field questions responded to - otherwise minimal input.

2.1.3 Piping and Mechanical Design

Meetings took place throughout the month with Voest Alpine on Contract 10, Addendum 4. (Formally Contract 12). The main reason for the meetings was to clarify the piping in the Screening and Compaction area. The remaining hours spent on the project was on telex answering both VA and JIL site. A sketch was produced showing the rerooting of the steam header from the pipe rack to the Compaction Building.

Models:

Screening and Compaction, Power Plant and the overall models were completed, crated and shipped during the month.

2.1.4 Civil/Structural Design

Besides the usual workload providing a backup to the site staff, answering queries and reviewing contractors drawing, the bulk of the hours expended by structural discipline were spent on a twelve day visit to site. A number of minor conflicts were sorted out during this visit, and a number of steel details which will require rechecking were noted. In general, however, the standard of workmanship was found to be acceptable.

2.1.5 Electrical Design

A meeting was held with Westinghouse Electric to discuss the status of certified drawings and installation manuals for P.O. 65-4 Electrical Switchgear.

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2.0 ENGINEERING AND DESIGN - Continued

2.1.5 Electrical Design - continued

The main area of activity during the month concerned answering queries from Balfour Kilpatrick on the Screening and Compact Plant, electrical drawings. Two meetings, were held with Balfour Kilpatrick to discuss these queries.

2.1.6 Building Services Design

Input was required in resolving the air conditioning systems in the "E" - houses and trying to establish the size and type of equipment put forward in the Krupp package. Queries were answered concerning the VAY units and ceiling layouts in the Administration Building.

2.1.7 Architectural Design

Regular telex reply/query service maintained with VA/BB.

Queries arising out of issue of Drawing Nos. AD 290, AD291, and AD 300 were noted and clarified to VA/BB.

Details of ACME doors for E Houses and 1 No door for Maintenance Building approved.

Enquiry requisition sent out for 2 No docklevellers for Maintenance Building.

All subcontract drawings submitted were reviewed, marked up and returned, approved or otherwise.

2.2 AGP - Reading

2.2.1 Contract No. 2 - Permanent Township

Nothing to report.

2.2.2 Contract No. 3 - Solar Evaporation System

Civil, Mechanical and Electrical Works

Preparation of as-constructed drawings and study of commenting upon Wimpey's final draft operating and Maintenance Manuals continued during the month.

Contract No. 4 - Movable Furniture

Nothing to report.

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2.0 ENGINEERING AND DESIGN - Continued

Contract No. 6 - Additional Buildings

Further working drawings were issued to the contractor during the month. Approvals of and commenting on material submittals by the contractor continued.

Contract No. 7 - Hospital Equipment

The date for the return of tenders was extended to 8th August, 1981.

3.0 CARNALLITE HARVESTING

The Harvester Barge (No. 1) was shipped to Japan during the month for trans-shipment to Aqaba. ETA Aqaba 7th September, 1981.

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

4.0 PROCUREMENT - JIL - Continued

- | | | |
|------|------------------------|-----------------------|
| 29-2 | Screening & Compaction | - Krupp |
| 34-1 | Truck Scales | - Pfister |
| 39-3 | Pipeline Pontoons | - GPE |
| 40-6 | Condensate Pump Set | - Worthington-Simpson |
| 58-2 | Minuteman Drill | - Cabelius |

Status of Remaining Purchase Order

- | | | |
|-------|---|----------------------|
| 01-4 | Process Slurry Pumps | - Worthington Canada |
| | Last two pumps on Amendment No. 4 are scheduled for late September, 1981 and are due to arrive in Aqaba 1st 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 |
| | Equipment due for shipping early August, 1981. Final payment is not yet due as some technical documents are outstanding. | |
| 49-23 | Work Boats | - Arklow Eng. |
| | The first boat is 50% complete and the Seller should have no difficulty in meeting the required delivery of November, 1st 1981. | |
| 64-15 | Process Instruments | - Foxboro. |
| | Final shipment is now scheduled for late September, 1981. | |
| 64-44 | Telemetering | - Telectron |
| | Equipment is now complete and testing is scheduled for September 8th 1981. Delivery airfreight mid-September, 1981. | |
| 64-45 | Control Valves | - Fisher Controls |
| | One valve on the original order. Remains to be delivered and this is scheduled for mid-September, 1981. Two extra valves purchased on amendment No. 5 are scheduled for delivery early December, 1981. The LOC has been amended and remains valid to 31.1.82. | |

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4.0 PROCUREMENT - JIL - Continued

65-4 Electrical Switchgear - Westinghouse.

Equipment purchased on the original P.O. have been delivered - there remains replacement parts on Amendment No. 6. Final payment has not been made as there are documents outstanding.

* = A.P.C.

** = SELLER

CHASE ORDER STATUS REPORT

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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%	
08-1875-01-1 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				

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

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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

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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					

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* - A.P.C.

** - SELLER

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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	11.6.1979	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

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

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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%	
08-1875-18-1	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 MTF 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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 ** = SELLER

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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%	
08-1875-21-4	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				
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	Fried 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				

* - A.P.C.
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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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* - A.P.C.
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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	d from APC 13.4.81 courier 12.10.1979	13.4.81 for signature 18.10.'79				
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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* - APC
 ** - SELLER

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ATTACHMENT NO. 6

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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 (KB) 26.2.1981	11.3.1981	already issued				
	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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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%	
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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* - A.P.C.
 ** - SELLER

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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%	
08-1875-40-6	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	Foxboro-Yoxall Ltd.,	14.11.80	* 23.11.1980	1.12.1980	1.12.1980				
Amendment 2	Courier	Courier	**25.11.1980		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

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ATTACHMENT NO. 8.5

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						

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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%	
08-1875-23-3	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	Craelius Co.,	11.6.1981							

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