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Security Council

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LETTER DATED 29 OCTOBER 1997 FROM THE PERMANENT REPRESENTATIVE OF IRAQ TO THE UNITED NATIONS ADDRESSED TO THE PRESIDENT OF THE SECURITY COUNCIL

On instructions from my Government, I have the honour to transmit to you herewith a letter from the Deputy Prime Minister, Mr. Tariq Aziz, with an appendix and an unofficial translation, concerning United States personnel and those who implement United States policy in the Special Commission.

I should be grateful if you would have this letter and its annex circulated as a document of the Security Council.

(<u>Signed</u>) Nizar HAMDOON
Ambassador
Permanent Representative

<u>Annex</u>

Letter dated 29 October 1997 from Mr. Tariq Aziz, Deputy Prime Minister of Iraq, addressed to the President of the Security Council

Resolution 1134 (1997), the latest resolution adopted by the Security Council, and the way the United States succeeded in getting it adopted led three permanent members, namely, Russia, China and France, and two other members, Egypt and Kenya, to abstain. This clearly reflects the arbitrary position imposed by the United States against Iraq, using pressure and blackmail.

More than six and a half years have elapsed since the Special Commission started its work in Iraq, during which all weapons proscribed and dozens of factories, thousands of pieces of equipment and instruments which the Commission claimed to be related to the proscribed weapons, have been destroyed. Moreover, many factories, pieces of equipment and instruments of civilian use have been also destroyed through arbitrary decisions, thus depriving Iraq of them while it has been under comprehensive embargo for seven years. Furthermore, during the same period, thousands of intrusive and regular inspections have been conducted. And since 1994, a comprehensive and very strict monitoring system has been operational monitoring all what is relevant and irrelevant to the subject of the proscribed weapons. Despite that, the Special Commission has not submitted to the Security Council the factual, objective and fair report that would lead to implementation of paragraph 22 of resolution 687 (1991). The Commission still pursues the approach of deliberate prolongation. In my letter to you on 12 October 1997 (S/1997/789), I had made clear many facts related to this matter.

The main reason for all of this is the position of the United States and the roles of the American personnel and other personnel of the Special Commission who implement the American policy.

The United States insolently declares that it is determined to change the national Government of Iraq and to maintain the embargo against Iraq regardless of the implementation of the resolutions of the Security Council. The aforementioned personnel of the Special Commission, who occupy senior and influential posts and whose number is very large, are executing this policy. This render the Special Commission an institution influenced to a large extent by the America's hostile policy aimed at fulfilling its illegal and illegitimate objectives. Therefore, the Special Commission, in terms of its composition, activities and rules, is no longer a neutral institution operating impartially and objectively to implement the provisions of Security Council resolutions 687 (1991) and 715 (1991) in accordance with the conceptual framework of a responsible international institution.

Iraq has endured multifarious acts of injustice and many deliberate abuses by the American inspectors and experts and those staff of the Special Commission who implement the American policy. The behaviour of those individuals, particularly during the inspections, became clearly threatening to Iraq's national security and its leading institutions under the declared hostile policy

of the United States of America, its constant threat to Iraq and carrying out, from time to time, that threat by military aggression.

I have illustrated these aspects in detail in my letter to you on 12 October 1997 and before that in my letter dated 15 June 1997 (S/1997/456).

Leaving the situation as it is means maintaining indefinitely the embargo against Iraq according to the wishes and whims of those who have tendentious purposes. Thus an entire people will be held hostage to the will of certain individuals working with the Special Commission who are actually executing the hostile, illegal and illegitimate policy of America. This is the practical significance of the aim of the latest resolution which is intended to be achieved by those who engineered it. Just one inspector out of those to whom I referred can fabricate a crisis for which America resorts to exercising pressure and blackmail in the Security Council as it has recently done to impose its will through additional resolutions, such as the latest resolution and previous resolutions.

For these reasons, I would like to inform you of the decision taken by the Government of Iraq to the effect that it is ready to continue the cooperation with the Special Commission and to arrive, with the Commission, at balanced arrangements enabling it to fully discharge its task in accordance with the legal framework and without excessiveness provided that no individuals of American nationality shall participate in any activity of the Special Commission inside Iraq, particularly inspections, interviews, and aerial and ground surveillance. We shall put into effect this decision, not to deal with the Americans working with the Special Commission in these activities, 1 a.m. on 30 October 1997. We also demand that all the aforementioned persons leave Iraq within seven days from that date.

I have explained in my letter dated 12 October 1997 addressed to you the question of the U-2 plane used by the Special Commission. The U-2 plane is an American spying plane which has been spying on Iraq and its leadership in order to execute America's hostile policy against Iraq under cover of the Special Commission's operations. It also provides the Special Commission with deliberately misleading information with a view to create problems and superficial crises as specifically happened in June and September 1997. We request that the Special Commission withdraw its cover from that spy plane flying over Iraqi skies and we stand ready to arrive at a neutral formula with the Special Commission, with the participation of the permanent members of the Security Council, if there is a need for such activity. In my letter to you of 12 October 1997, I made proposals, such as replacing the U-2 plane by an Iraqi plane which is to be fully placed under the disposal of the Special Commission, or by using a plane belonging to a neutral State that has no special objectives against Iraq.

Iraq also hopes that the representatives of all the other permanent members of the Council will assume, in an unbiased manner, leading positions at the headquarters of the Special Commission in New York and Baghdad, and will take part in a balanced and effective way in all the tasks of the Special Commission, as well as in drawing the technical conclusions related to the weapon files.

The Special Commission, influenced by America and the American elements within the Special Commission, propagated over the past years a long series of lies about what it termed the mechanism of concealment. I referred to that in my letter of 12 October 1997 and clarified the lies that were exposed through the work of the Special Commission itself as it was the case in the missile area.

In order to put a decisive end to this subject, and in addition to the foregoing, we propose:

- 1. Iraq is ready to receive a specialized committee or committees from the permanent members of the Security Council (with the exception of America), as well as any other States members of the Security Council individually or collectively within the framework of the Special Commission or outside it to verify the claims of concealment in a decisive and final manner and to ascertain that Iraq is fully divested of the proscribed weapons.
- 2. Iraq is ready to ensure the security of the visit by the committee or committees referred to in paragraph 1 above to all sites they wish to visit in order to verify this matter. We are also ready to answer all their questions and inquiries in a manner that ensures credible means of verification within the framework of respect for Iraq's sovereignty, security and the dignity of its people.

Iraq is confident that it is free of proscribed weapons and has no apprehension of actions to verify that by all practical means, including visits to the sites deemed necessary to be visited by those States and individuals who have no hostile purposes against Iraq and its national security, to ascertain that no proscribed weapons exist therein.

I hope that the fair-minded members of the Security Council understand our decision concerning the Americans working with the Special Commission and the proposals that we have made in this letter. I also would like to emphasize our sincere desire for continuing the cooperation with the Special Commission in order to fulfil our obligations. At the same time we demand that the Security Council fulfils its obligations towards Iraq by respecting Iraq's sovereignty, territorial integrity, security and dignity. And by proceeding very soon to take the fair decision to implement paragraph 22 of resolution 687 (1991) as a first step towards lifting the embargo totally and comprehensively in return for Iraq's fulfilment of the requirements of section C of resolution 687 (1991), as an indispensable expression that makes the approach of the Security Council consistent with the Charter of the United Nations towards a free people subjected to injustice, oppression and excessiveness, and in return for Iraq's implementation of, and commitment to, other Security Council resolutions of great political significance.

I enclose with this letter a comprehensive list of the factories, equipment and instruments destroyed between 1991 and the present time so that the Council may have a clearer picture of this matter. I also enclose a list of the names and numbers of the Americans who participated in the Special Commission's tasks so that the members of the Security Council can see their very high percentage among the personnel of other nationalities.

Appendix

A. THE CHEMICAL PROGRAMME

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- 1. Table-1: The Destruction by the Iraqi Side of Items Related to the Chemical Programme in 1991.
- 2. Table-2: The Destruction of Items Related to the Chemical Programme by Air Raids during the War in 1991.
- 3. Table-3: The Destruction of Items Related to the Chemical Programme under the Supervision of the UNSCOM in 1991
- 4. Table-4: The Destruction of Items Related to the Chemical Programme under the Supervision of the UNSCOM 1992-1994
- 5. Table-5: The Destruction of Items Related to the Chemical Programme under the Supervision of the UNSCOM from 1 Sept. 7 Oct. 1997

TABLE - 1
The Destruction by the Iraqi Side of Items Related to the Chemical Programme in 1991

Ser. no.	Item Description	Qty.	Notes
i	122 mm rocket type sakar-30	6000	* Empty
2	122 mm rocket type firoS S25	16500	* Empty
3	122 mm warheads	4500	* Empty
4	Aerial bomb type LD250	2000	* Empty
5	Aerial bomb R-400	530	* Filled with alcohol
6	Al-Hussain warhead	20	* Filled with Alcohol
7	Aerial bombs type 250	125	*
8	Coline	55	*
		tons	
9	P2S5	170	*
		tons	
10	MPS	1625	sk
		kg	
11	DFP	2 tons	*
12	Pyrophosphate	3 tons	*
13	Spoilt VX	3170	*
		kg	

^{*} All the items were verified by UNSCOM-35

TABLE - 2
The Destruction of Items Related to the Chemical Programme by Air Raids during the War in 1991

Ser no.	Item Description	Qty.	Notes
1	Filling station warhouse	7	
2	Production building	6	
3	R & D building	5	
4	Bunkers	4	
5	Mechanical workshop	4	
6	Aerial bomb, workshop	1	
7	Al-Muhammadiat warhouse	35	
8	Library builing	1	
9	Administrative building	2	
10	Falluia/1 site		
	warhouse	4	
	multipurpose building	1	
	utilities	2	
11	Falluja/2 site		
	chlorine plant	1	
	thionyl plant	1	
	warhouse	4	
	multipurpose building	1	
12	Falluja/3 site		
	warhouse	4	
	multipurpose building	1	
	utilities	1	
13	Chemical precursors	1006 ton	
14	Production equipment		
	-Reactors	14	1
	-Distillation Column	19	<u> </u>
	-Vessel	25	
	-Scrubber	8	1
	-Compressor	8	
	-Chiller	11	
	-Vacumme pump	9	
	-Heat exchanger	2	
	-Heating system	1	
	-Glass Column	3	
	-Neutralization unit	2	
	Total	102	
L		!	1

15	Munitions	
	-120 mm mortar shell filled	20000
	with CS	
	-120 mm mortar shell empty	24000
	-82 mm mortar shell filled	107
	with CS	
	-122 mm rocket empty	29622
	-122 mm rocket conventional	16050
	-RPG-7 filled with CS	1400
1	-122 mm rocket filled with	2500
}	nerve agent	
	Totol	94179

TABLE - 3
The Destruction of Items Related to the Chemical
Programme under the Supervision of the UNSCOM in 1991

Ser no.	Item Dscription	Qty.	Notes
1.	R-400 Aerial bomb	56	UNSCOM -12 CW4
2.	122 mm Rocket warhead	7253	DITTO
3.	Aerial Bomb LD-250	2439	DITTO
4.	Aerial bomb 750 kg	8	DITTO
5.	Aerial bomb DB-2	27	DITTO
6.	155 mm Artillary shell	1688	DITTO
7.	Aerial bomb LD-500	327	DITTO
8.	Aerial bomb Qaqa 500 kg	4	DITTO
9.	Tail fin, body, noze cone parts 500 kg bomb	403	DITTO

TABLE - 4
The Destruction of Items Related to the Chemical
Programme under the Supervision of the UNSCOM 1992-1994

Ser no.	Item Description	Qty.	Notes
1.	122 mm Rocket components	36063	UNSCOM -38
	(including warheads .		[CDG]
	motors, and propellant)		
2.	155 mm Artillary shell filled	12800	DITTO
	with mustard		
3.	155 mm Artillary shell	50	DITTO
	empty		
4.	Al-Hussein warhead filled	16	DITTO
	with GB/GF		
5.	Al-Hussein warhead filled	14	DITTO
	with alcohol		
6.	R-400 aerial bomb	337	DITTO
7.	R-400 Tail fin	804	DITTO
8.	Aerial bomb LD-250 empty	5200	DITTO
9.	Aerial bomb LD-250 filled	1233	DITTO
	with mustard		
10.	Aerial bomb LD-500 filled	980	DITTO
	with mustard		
11.	Aerial bomb type DB-2	1115	DITTO
	empty		
12.	Aerial bomb type DB-0	61	DITTO
	empty		
13.	Mustard agent	465154	DITTO
		litter	
14.	Nerve agent	88360	DITTO
		litter	
15.	Chemicals precursors	2800000	DITTO
		litter	
16.	Machines for production of		UNSCOM - 39
	aerial bomb		
	-Plate sheats machine	1	
	-Roll bending machine	1	
	-Longitudinal submerged arc	3	
	welding machine	1.	
	-Horizontal hydraulic press		
	with an expanding mandrel	<u> </u>	

		· · · · · · · · · · · · · · · · · · ·
and segment		
-Oxy-flame cutting machine	2	
-Robot welding machine	4	
-Circular submerged arc	2	
welding machine		
-Circular submerged arc	2	
welding machine with two		
welding heads		
-Welding posioner machine	2	
-Spot welding machine	3	
-Circular shears machine	1	
•	1	
-Rotary transfer machine for	2	
drilling and tapping		
-Small welding positioner	1	
clamped on verical column	-	1
-3-units of universal	3	
production lathe machine		
-CNC turing machine	2	
-Metal band sawing machine	2	
-Ring former machine] 1	
-Column drill	2	
-Horizontal hydraulic press	2	
with an expanding mandrel		
and segment		
-Spinning lathe forming	2	
machine		1
-3-units of tig welding	3	
machine		
-Welding positioner device	1	
-2-unit of longitudinal tig-	1 -	
welding machine		
-Hydraulic press capacity 10	1	
tons	1	
-3-unit of universal column	3	
dill		! !
-Induction brazing solder	. 1	
welding machine	1	
•	1	
-Porfile roll bending machine	1	
-Metal circular sawing	5 2	
machine	1.	
-Universal rotator table	1	
-Manual roll banding	g 1	
machine	1	
-Manual ring former	54	
Totol		7.

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17.	Tools & Molds for item	16	DITTO	
18.	Production equipment	52	UNSCOM-38	

TABLE - 5 The Destruction of Items Related to the Chemical Programme under the Supervision of the UNSCOM from 1 Sept. - 7 Oct. 1997

Ser no.	Item Dscription	Qty.	Notes
Ī.	chemical precursors	270	UNSCOM -12 CW4
		ton	
2.	production equipment which include reactors, columns, heat exchangers, tanks condensers and vessels. All are of different size and capacity.	185	
3.	glass equipment which include reactors condensers, distillation columns and vessels. All are of different size and capacity.	197	
4.	different analytical instruments.	90	

B. THE BIOLOGICAL PROGRAMME

Contents:

- 1. Table 1: The Destruction of Items Related to the Biological Programme by the Iraqi side in 1991
- 2. Table 2: The destruction of Items Related to the Biological Programme Under the Supervision of UNSCOM in 1996

TABLE - 1

The Destruction of Items Related to the Biological Programme by the Iraqi side in 1991.

Ser. no.	Item Description	Qty.	Notes
1	Aerial bomb (R-400)	157	Filled with agents A.B.C + verified
			by UNSCOM teams)
	{	į	- UNSCOM 126 Oct 1995
			- UNSCOM 157 Sep. 1996
			- UNSCOM 173 Feb. 1997
			- UNSCOM 187 May 1997
2	Al-Hussain warhead	25	Filled with agents A.B.C (verified
			by UNSCOM teams)
			BG-2 Aug. 1995
			-UNSCOM 125 Aug 1995
			- UNSCOM 126 Oct 1995
		Ì	- UNSCOM 167 Dec 1996
3	Mobile tanks	46	Empty tanks, (verified by UNSCOM
	1		teams)
			- BG-2 Aug. 1995
			- BG-3 Nov. 1995
4	Biological agents.	12.8 m ³	
		l	3.4 m³ agent (B)
			0.6 m ³ agent (C)
	1		0.3 m ³ agent (G)
5	Culture media	unco-	Different types of culture media
		unted	(verified by UNSCOM teams)
			- BG-2 Aug 1995
	1	i	-UNSCOM 125 Aug. 1995
6	Glass wear	unco-	Different types of glass wear (
		unted	verified by UNSCOM teams)
			- BG-2 Aug 1995
			-UNSCOM 125 Aug. 1995
7	Bacterial isolates	unco-	Different typs of bacterial isolates
		unted	(verified by UNSCOM teams)
			- BG-2 Aug. 1995
			-UNSCOM 125 Aug 1995
3	Empty Munition		Different types of empty monition.
		ļ	ALD 500 (2), LD250 (3), 122 mm
			(1), 155 mm (1),R400 (6+7 tails).
		Ĺ	verified by UNSCOM teams
		1	- BG-3 Dec. 1995
		<u> </u>	-UNSCOM 127 Dec. 1996

TABLE-2 The Destruction of Items Related to the Biological Programme Under the Supervision of UNSCOM in June 1996

Al - Hakam Site

Ser. no.	Item Description	Qty.	Notes
1.	Spectrophotometer	3	The destruction was carried out under the supervision of UNSCOM 134 from 18/5/1996 to 19/6/1996 and the destruction process was evaluated by UNSCOM 151 from 11/6/1996 to 13/6/1996
2.	Oven	4	
3.	Microscope	3	
4.	Incubator	4	
5.	Phase - contra wilozyt Microscope	1	
6.	Perstatic Pump	2	
7.	PH-meter	3	
8.	Stirrer	l	
9.	Balance	3	
10.	Shaker Orbital	2	
11.	Centrifuge	5	
12.	Spray dryer	3	
13.	St. St. tank (400 L)	2	
14.	St. St. tank (100 L)	1	
15.	Storage tank (200L)	1	
16.	Harvest tank (600L)	i	
17.	Harvest tank (100L)	1	
18.	Fermenter (450L) with accessories.	1	
19.	Fermenter (100L)	1	
20.	Fermenter (150L)	2	
21.	Tank (520 L)	ı	
22.	Autoclave	4	
23.	Steam generator.	6	
24.	Chiller	6	
25.	Heavy duty pump	l	
26.	St. St. Tank(5 m ₃)	4	
2 7.	Fermenter (1850 L)	2	
28.	Fermenter (340 L)	1	,

29.	Mixer (780 L)	2
30.	Air dryer	3
31.	Air compressor	5
32.	Water distiller	
33.	water Pump	
34.	Panel control	2
35.	St. St. tank for distilled water	
J J.	(5000 L)	1
36.	Deionized water unit with	2
30.	ì	~
37 -	accessory.	
37.	St. St. tank for steam	1
30	generator	
38.	Cooling tower	4
39.	Drum Dryer	1
40.	Cold room	3
41.	Gas oil tank mobile	1
42.	Gas oil tank - static	2
43.	Gas oil pump	2
44.	Fiber glass tank	1 :
45.	Water bath	1
46.	Vibro fix	2
47.	Bacteriological cabinet	
48.	Soil dryer	I
49.	Sea sealing machine	2 .
50.	Harvesting tank (600L)	1
51.	Collecting tank (500L)	
52.	Continuous centrifuge	6
53.	St. St. tank (400L)	2
54.	Milling machine	1
55.	Benterite mixer	1
56.	Anaerobic incubator	5
57.	Anacrobic cabinet	1
58.	Chiller	2
59.	Centrifuge	1
60.	Oven	7
61.	Microscope	3
62.	Air sampler	5
63.	Vibrofix	4
64.	Water bath	5
65.	Fraction collector	
66.	Peristatic pump	2

67.	Colory counter	3	٦
68.	UV detector	1	\neg
69.	PH probe	1	
70.	Water pump		٦
71.	Loop sterilizer	3	7
72.	Sonicator	1	-
73.	PH meter	2	_
74.	Incubator	8	7
75.	Lyophilizer	5	
76.	Vacuum pump	4	-
77.	Balance	7	1
78.	Autoclave	4	\dashv
79.	Shaker incubator	6	-
80.	Spectro photometer		\dashv
81.	Lab. Fermenter with	3	4
• • • • • • • • • • • • • • • • • • • •	accessories		
82.	Centrifuge	2	_
83.	Contininuous centrifuge	3	4
84.	Motor	4	\dashv
85.	Water distiller	2	_
86.	Sealing machine	2	
87.	Deep freezer	2	7
88.	Laminair flow	1	
89.	Refrigerator	12	i
90.	Fieezer	3	-
91.	Spare parts for different		
	equipment at all sites.		į
92.	Flour filling machine	1	
93.	Desicator	1	
94.	Glass ware	uncounted	
95.	Egg incubator	2	
96.	Kjeldhal apparatus	1	
97.	Magnifier	1	
98.	Developer	1	
99.	Cooling bath		
100.	Slide projector	1	
101.	Test tube shaker	1	
102.	Flat shaker	1	
103.	Cooling plate	1	
104.	Flask air dryer	1	
105.	Pasteurization unit	1	

106.	Carbon steel tank	1
107.	Carbon steel tank (100L)	1
108.	Vibrator	1
109.	Rotatring pump	
110.	Tank (65L)	2
111.	Tank (166L)	
112.	Autoclave	i
113.	Tank (400L)	2
114.	Double jackated tank (400L)	1
115.	Double jackated tank (300L)	1
116.	Mobile tank (100L) with	
110.	stirrer	
117.	Collecting tank	1
118.	Incinerator	
119.	Cooling tower	2
120.	pump	22
121.	Dryer	1
121.	Incubator	1
123.	Filter	7
		21
124.	St. St. tank (different size)	28
125.	Pressur gauges	
126.	Split unit	14
127.	Chiller	1
128.	Spare parts	
129.	Continous centrifuge Base unit for fermenter	1
130.		3
131.	Glove box	1
132.	Water distiller	1
133.	Steam generator	1
134.	Fermenter (1500L) with	
135.	St. St. tank (1500L)	
135.	Fermenter (300L)	1
130.	St. St. tank (20L)	3
	Fermenter (4500L)	2
138.	_1	6
139.	St. St. tank (200L)	5
140.	St. St. tank (2500L)	
141.	St. St. tank (?500 L)	1
142.	St. St. tank (1000 L)	
143.	Centrifuge	1
144.	Spray dryer	1

145.	Control bord for fermenter	
145.	}	1
146	(300L)	
146.	Control bord for fermenter	2
	(4500L)	2
147.	Control bord for PH + PO2	3
148.	Control bord for Tanks	1
	(2500L)	
149.	Control bord for spray dryer	1
150.	<u> </u>	1
151.	Control bord for centrifuge	1
152.	St. St. tank (400L)	I
153.	St. St. tank (500L)	1
154.	St. St. tank (1500L)	1
155.	St. St. tank (2200L)	2
156.	St. St. tank 10 m3	1
157.	Fermenter (75L)	1
158.	Control bord for fermenter	1
	(75L)	
159.	Tank (600L)	1
160.	fermenter (300L)	1
161.	Control bord for fermenter	1
	(300L)	
162.	Tank (520L)	1
163.	Centrifuge	1
164.	Spray drayer	
165.	Autoclave	1
166.	Oven	1
167.	Steam generator	3
168.	St. ST. tank 50 m ³	1
169.	Fuel tanks	uncounted
170.	PVC &st.st. pipes with	rncounted
·	different fittings	
171.	Electrical stations equipment	uncounted
172.	Diesel generators	16
173.	Sanitarry & Constructions	uncounted
	materials	
174.	Electrical & mechanical tools	
175.	Lab. furnitures	uncounted
176.	Cartoons & plastic boxes	uncounted
177.	Air Conditioning units	uncounted
178.	Raw materials for	uncounted

	biopesticide and SCP	
	production	
179.	Different types & quantities	uncounted
	of culture media & chemicals	
180.	Thousands of scintific books	uncounted
1	& pericolicals	
181.	Adminstrative & Financials	uncounted
	documents	
182.	Bactenial isolates used in	uncounted
	biopesticide, fertilizer, SCP	
	and organic solvents	
	production	
183.	Shed A1	
184.	Shed A2	1
185.	Desel generator Building	1
186.	Store building	1
187.	Administration building	1
188.	Evaluation building	1
189.	Incineerator building	1
190.	Reseatch & Development building	1
191.	Vehicls, maintenance &	1
	petroleum station building	
192.	Water station building	1
193.	Electricity building	1
194.	50 m3 building for SCP production	1
195.	Main stores building	1
196.	Drum dryer building	1
197.	Alcohol stores	1
198.	5 m3 building for pesticide	1
<u></u>	production	
109.	Sanitary and construction	1
	material stores	
200.	Electical materials stores	1
201.	Automobile Parking Area	1
202.	Coravans for stores and Financial administration	1

Notes:-

- A very large number of the destroyed equipment and materials was not used in the past program or imported for the program purposes, and it is worthmentioning that some of those items arrived at Al-Hakam site after 1993, i.e. 5 cubic meters system for organic pesticides production and the 50 cubic meters system for SCP production. In addition, all spare parts and production raw materials related to the said systems were also destroyed. Moreover, Al-Hakam site buildings were totally destroyed including that which was established after 1992.
- All Al-Hakam site buildings were totally destroyed using high explosives and even the remained buildings structure were collected and re-destroyed by explosives.
- All equipment, instruments and tools were destroyed by cutting, exploding or passing a Bulldozer over them, and after destruction the items were collected in a large pit and covered with a thick layer of cement.
- All scientific books and periodicals were collected in a large pit and burnt.
- All culture media and chemicals were destroyed by water and then burried.

Al-Salman Site

Ser. no.	Item Description	Qty.	Notes
1.	Oven .	3	The destruction was carried out under the supervision of UNSCOM 134 from 18/5/1996 to 19/6/1996 and the destruction process was evaluated by UNSCOM 151 from 11/6/1996 to 13/6/1996.
2.	Oven with UV	3	
3.	Sterilization room	1	
4.	Cages for arimals	69	
5.	Plastic bottles	264	
6.	Plastic gauges	8	
7.	Cover	27	
8.	Part of phase contrast microscope	1	
9.	Beneh type centrifuge	2	
10.	Surface tansion measuring equipment	2	
11.	Atomic absorption	1	
12.	Water bath	1	
13.	Centrifuge	2	
14.	Lyophilizer accessories	3	
15.	Deep freezer		
16.	Voltage (regulator)		
17.	Base unit for fermenter	1	

18.	Air filter	2	
19.	Parts of lab. equipment		

AL-Fudaylia Site

Ser. no.	Item Description	Qty.	Notes
1.	Enviromental chamber	4	The destruction was conducted under the supervision of UNSCOM 134 for the period from 18/5/1996 to 19/6/1996 and the destruction process was evaluated by UNSCOM 151 for the period from 11/6/1996 to 13/6/1996.
2.	Fume hood	1	
3.	Incubation oven	1	

FMD Site

Ser. no.	Item Description	Qty.	Notes
1.	Fermenter (2600 L)	1	The destruction was carried out under the supervision of UNSCOM 134 from 18/5/1996 to 19/6/1996 and the destruction process was evaluated by UNSCOM 151 from 11/6/1996 to 13/6/1996.
2.	Fermenter (1425 L)	1	
3.	Fermenter (2100 L)	2	
4.	Fermenter (2950 L)	2	
5.	Central cu	8	
6.	Double Jacketeal tank	1	
7.	Fermenter (141 L)	1	
8.	Centrifuge	1	
9.	Incubater	1	
10.	Water bath	1	
11.	Microscope	1	
12.	Refrigeratar	l	
13.	Freezer	1	
14.	Stirring motor	5	
15.	Autoclave	1	
16.	Mobile tank (125 L)	i	
17.	Mobile tank (2550 L)	1	/

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Notes:-

180 ventilation pipes of FMD site were closed by covering them with a layer of cement.

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C. THE NUCLEAR PROGRAMME

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- 1. Table 1: The Destruction of Items Related to the Nuclear Programme by the Iraqi side up to the end of June 1991.
- 2. Table -2: The Destruction of Items Related to the Nuclear Programme By Air Raids in 1991.
- 3. Table -3: The destruction of Items Related to the Nuclear Programme during the War.
- 4. Table -4: The Destruction of Items Related to the Nuclear Programme Under the Supervision of IAEA in 1992.

TABLE-1 The Destruction of Items Related to the Nuclear Programme by the Iraqi side up to the end of June 1991

(Al-Tarmiya site)

Ser. no.	Item Description	Qty.	Notes *
1	Double pole & double coil	12	R 1200, 600 separator and system
			componens (phase 1 and 2)
2	End pole	6	
3	Vertical return iron	4	
	supporting the end pole		
4	Vacuum chambers	31	
5	Quadruple collectors	8	
6	Quadruple ion sources	7	
7	Double pole supporting	27	
	carriages		
8	Vertical return iron	6	
9	Double pole with no coil	15	
10	Coils	30	
11	Sources	6	
12	Collectors	4	
13	Power supplies for ion	36	cabinet containing:
	sources		- PS1 (10 v, 500 A)
ł_			- PS3 (400 v, 7 A)
14	Pilot plant recovery of	1	- washing chamber
	uranium from liners and	6	- Leaching tank
	graphite collectors R-1200	2	- Ultrasonic bath

(Al-Tuwaitha site)

Ser no.	Item Description	Qty.	Notes
1	Equipment for project 101	32	different components
2	Equipment for project 105	20	Ditto
3	Equipment for project 106	2	Ditto
4	Equipment for project 102/103	4	Ditto
5	R-100 separators (R-100/1, R100/2, R100/3)	1	4 different components

6	R-50 Separators	1	3 different components
7	Coils for EMIS projects	3	
8	System for measurement of separation factor for diffuser using R12/R114	500	- porous tubes 60 cm long
9	Anodized barriers (600 tube)	600	- Anodized barrier
10	System for preparation of anodized barrier for P301	1	
11	Measurement system for permeability and burst	l	
12	Unit for UF6 perparation by direct fluorination	2	- Boat type metal unit
13	UF6 cylinders (5A,2S,1S)	16	
14	Experimental rig for UF6 purification from HF,N2 and R-114	1	UF6 purification
15	Pilot reprocessing plant- LAMA	1	21 different components
16	Unit for production of highly enriched uranium	1	8 different components
17	Experimental units for U- metal purification	1	5 different components
18	Unit for perparation of UF4 by direct reaction with UO2	l	5 different components
19	Plant for production of metallic uranium /UF4 preparation	1	11 different components
20	Unit for production of nuclear grade UO2 purification	1	28 different components

(Dijla Factory)

Ser no.	Item Description	Qty.	Notes *
1	Power supply	6	
2	Power supply for magnet	2	

(Qaqa'a Gen. EST. site)

Ser no.	Item Description	Qty.	Notes *
İ	Equipment for vacuum casting (4th stage development)	1	- about 10 molds
2	E.B.W. detonators	100	detonators
3	Mold for pressing of explosives	10	mold
4	Lenses	30	Lens
5	Systems for detonating 4,8,16 detonators	3	

(Rashdiya EDC.)

Ser no.	Item Description	Qty.	Notes *
1	Unit for UF4 preparation by wet method	1	Reactor
2	Anodized alumina barrier tube suitable for UF6	1	Barrier tube
3	Oil centrifuge	1	10 different components
4	Equipment for projects 360,362,363,364 and 365	3	
5	Unit for Uf6 preparation by direct fluorination (50 gm/batch)	1	

(Al-Atheer Site)

Ser no.	Item Description	Qty.	Notes *
ī	Equipment for device development program	3	
2	Equipment for device development program	100	PVDF sensors

* Note:-

All these Buildings were verified by the IAEA inspection teams (1-8) which visited Iraq from 14 May - 18 Nov. 1991

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TABLE-2

The Destruction of Items Related to the Nuclear Programme By Air Raids in 1991.

(Building)

Ser. no.	Item Description	Qty.	Notes *
1	Iraqi Atomic Enenrgy		Completley destoryed with all
	Commision		their equipment
	-14 July Reactor building	1	
	- Tamuz-2 Rector building	2	
	- Readioactive wast	1	
	treatment building		
	- Hot cell building	1	
	- Radio isotope production	2	
	building		
	- Computer building	1	Partially destroyed with most
	- Physical building	1	their equipment
	- Chemical Radiochmical	1	
	Lads		
	- Lazer building	1	
	- Fuel Fabrication building	2	Completely destroyed with all
	- Electromagnetic saprators	3	their equipment
	building		
	- Admistration building	. 2	
	- Mechanical work shopes	2	
	- Cooling Towers	2	
2	Tarimya site		
	- Sapartors buildings	3	Completely destoryed with all
	- Chemical washing	1	equipment
	buildings	1	
	- Medical center	1	Paritially destroyed
	- Collector preparatu	2	
	building	1	
	- work shopes		
	- water purification building		į
3	Al-Jazira site	1	Completely desroyed with all its
	- Uo2 production building &	2	equipment
	its uitilities		
	- Ucl4 production building &	2	
	its uitilities	1	
	- Work Shopes	2	

4	Al-Qaim - Yellowcake purification unit	1	All the building & lads with their equipment destroyed Completely
5	Al-Atheer - Testing Bunker - Physical building - Restrant - Power station		

* Note :-

All this Buildings was verified by the IAEA inspection teams (1-3) which visited Iraq from 14 May - 19 July 1991

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TABLE-3

The Destruction of Items Related to the Nuclear Programme during the War.

(Tuwaitha site)

Ser. no.	Item Description	Qty.	Notes *
1	control system for projects 104,105 & 106	1	89 Different Components
2	Equipment for project 101	1	- A field scanning system, consisting of 256 Hall-prodes type KSY-10
3	Equipment for project 106	1	22 Different Components
4	Equipment for project 102/103	1	6 Different Components
5	R-100 separators (R100/1, R 100 /2, R100/3)	1	6 Different Components
6	R-50 separators	l I	11 Different Components
7	Power supplies	44	
8	The pilot plant for chemical ennrichment	1	27 Different Components
9	Equipment for chemical enrichment programme	3	
10	Chemical enrichment program. Ion exchange separation pilot plant of the uranium isotopes	1	
11	Chemical enrichment program.Ion exchange separation production plant project	1	
12	Co2 Lasers (Iraqi made)	1	Co2 Lasers
13	Experimental apparatus	1	6 Different Components
14	Other laser equipment	1	9 Different Components
15	Tubes for molecular beam	1	
16	X-ray device	1	X-ray device
17	System for denotaing 4- detorators	1	Counter (resol. Ins)

(Tuwaitha site)

Ser no.	Item Description	Qty.	Notes *
18	Unit for UF4 preparation by using R12 as fluorinating agent	1	Pyrex rotary reactor (May 87- Jan. 91)
19	Unit for UF4 preparation by using R12	1	Boat type pyrex unit
20	Unit for UF4 preparation by using R12	1	Pyrex rotary reactor dry method
21	Po-210	140 ugm	- Radioactive source
22	Pilot reprocessing plant- LAMA	1	21 Different Components
23	Unit for preparation of polonium 210	1	8 Different Components
24	Pilot plant for production of UCI4	1	8 Different Components
25	pilot plant for recovery of uranium from graphite collector of EMIS size R- 1000, R-500	1	6 Different Components
26	R&D system for UCI4 purification by sublimation on a semi continuous bass	I	4 Different Components
27	system for investigation of UCI4 purification by sublimation on a semi continuous basis	1	4 Different Components
28	Sublimation units for project 224	1	24 Different Components
29	system for preparation of UCI4 by liquid phase reaction between liquid CCI4 and UO3	1	8 Different Components

(Tuwaitha site)

Ser no.	Item Description	Qty.	Notes *
30	system for purification of UCI4 by vacuum sublimation	1	16 Different Components
31	system of reduction of uranium peroxide	1	9 Different Components
32	UCI4 preparation by liquid phase reaction	1	7 Different Components
33	UCI4 production by liquid phase chlorination	1	8 Different Components
34	UCI4 productions by vapor phase chlorination (1kg/batch)	1	6 Different Components
35	UCI4 production system	1	7 Different Components
36	Unit for CCI4 purification	1	7 Different Components
37	pilot plant for recovery of uranium from liner (EMIS)	1	6 Different Components
38	System for handling washing solution contining uranium recovered from the liner	1	8 Different Components
39	Unit for production of highly enriched uranium	1	2 Different Components
40	Unit for puification of Mg metal powder	1	4 Different Components
41	Experimental studies of U-metal purification	1	6 Different Components
42	Unit for puification of U-metal	1	29 Different Components
43	Unit for preparation of UF4 by direct reaction with UO2	1	2 Different Components
44	Unit for preparation of UF4 from crude OU4 directlyby	1	5 Different Components
45	Unit for preparation of nuclear grade UO2 purification	1	4 Different Components

(Tuwaitha site)

Ser no.	Item Description	Qty.	Notes *
46	Unit for preparation of nuclear grade UO2 purification	1	6 Different Components
47	Ceramic line	1	23 Different Components

(Dijla Factory)

Ser no.	Item Description	Qty.	Notes *
1	Power supply	5	

* Note :-

All this equipment was very verified by the IAEA inspection teams (1-8) which visited the Iraq from 14 May - 18 Nov. 1991

TABLE-4 The Destruction of Items Related to the Nuclear Programme under the Supervision of IAEA in .1992

(Al-Atheer site Building)

Thirty five thousands square meters were destroyed at Al-Atheer site, approximately as follows:-

Ser. no.	Item Description	Qty.	Notes	Team No.	Date
1	High explosives test vunker	1	Destroyed by filling the room with concrete	11 th IAEA	7- 15/4/92
2	Explosion chamber	1	Destroyed bycutting torch	Ditto	Ditto
3	Control building	1	Destroyed by explosives	Ditto	Ditto
4	Physics building	1	Ditto	Ditto	Ditto
5	casting building	1	Ditto	Ditto	Ditto
6	Carbide building	1	Ditto	12 th IAEA	26/5/92 - 5/6/92
7	powder building	1	Ditto	Ditto	Ditto
8	polymer	1	Ditto	Ditto	Ditto

(Al-Tarmiya site Building)

1500 square meters of Al-Tarmiya site's building were destroyed as follows:-

Ser no.	Item Description	Qty.	Notes	Team No.	Date
1	Seperators building	1	Destroyed by explosive	12 th IAEA	26/5/9 ² - 5/6/92
2	Electrical power supply station for Seperators building (No. 80)	1	Destroyed by explosive	13 Th IAEA	14- 21/7/92
3	Electrical power station	1	Destroyed by explosive	Ditto	Ditto

(Al-Shirkat site Building)

Ser no.	Item Description	Qty.	Notes	Team No.	Date
1	Electrical power supply	3	Destroyed by explosives	12 th IAEA	26/5/92 - 5/6/92
2	Seperators building	1	Destroyed by explosives	Ditto	Ditto

(Al-Tuwaitha Equipment)

Ser no.	Item Description	Qty.	Notes	Team No.	Date
1	Glove box	15	Totally destroyed by filling with cement	8 th IAEA	11/18/11 1991
2	Manipulator	10	Totally destroyed	Ditto	Ditto
3	Mixer settlers	32	Ditto	Ditto	Ditto
4	Vacuum chambers	30	Ditto	7 th IAEA	11-22/10 1991
5	Vacuum systems	1	Ditto	Ditto	Ditto
6	Vacuum tube	4	Ditto	Ditto	Ditto
7	Elevator tester	2	Ditto	Ditto	Ditto
8	Oil centrifuge assembly	2	Ditto	Ditto	Ditto
9	Oil centrifuge cylinders	3	Ditto	Ditto	Ditto
10	Centrifuge cover	7	Ditto	Ditto	Ditto
11	Uf6 loading system	1	Ditto	Ditto	Ditto
12	Tools boxes for the centrfugal	5	Ditto	Ditto	Ditto
13	equipment belong to the centrfugal	1725	Ditto	Ditto	Ditto
14	Mold for pressing the parts	1	Ditto	Ditto	Ditto

	of vacumm boxes			T	
15	Elevator for the ecntrfuge welding	1	Ditto	Ditto	Ditto
16	Puls column system	I	Ditto	Ditto	Ditto
17	Marging steel	100tons	Ditto	Ditto	Ditto
18	Varous special aluminum	45tons	Ditto	Ditto	Ditto
19	Magnetic magnesium oxide	240000 pieces	Ditto	Ditto	Ditto
20	Hot cells	5	Ditto	Ditto	Ditto
21	Electrode size 400	6	Ditto	Ditto	Ditto
22	Electrode face	5	Ditto	Ditto	Ditto
23	return Iron size 1000	5	Ditto	Ditto	Ditto
24	Ring return iron	10000 pieces	Ditto	Ditto	Ditto
25	Steel system 106	2	Ditto	Ditto	Ditto
26	Copper coils	15	Ditto	Ditto	Ditto
27	End electrodes	4	Ditto	Ditto	Ditto
28	Vertical return iron	4	Ditto	Ditto	Ditto
29	Different size and kind of equipment for the production of lithium isotopes	20	Ditto	Ditto	Ditto
30	600 mm Vacuum Chambers Die	1	Ditto	Ditto	Ditto
31	600 mm Vacuum Chambers	2.	Ditto	Ditto	Ditto
32	600 mm Vacuum Ducts	2	Ditto	Ditto	Ditto

(Equipments Rashdiya Engineering Design Centre)

Ser no.	Item Description	Qty.	Notes	Team	Date
				No.	
1	Carbon fiber sylinders	7	Note:- centrifuge	7 th IAEA	11-
		Ì	components		22/10
			Ì		1991
2	Recipients with holes	4	Ditto	Ditto	Ditto
3	Recipients with holes and pumps	2	Ditto	Ditto	Ditto
4	Recipients without holes	1	Ditto	Ditto	Ditto
5	Recipients of different design and 2 loose pieces	2	Ditto	Ditto	Ditto
6	Top flanges	54	Ditto	Ditto	Ditto

7	Top fiange with damper	1	Ditto	Ditto	Ditto
8	Test jigs	2	Ditto	Ditto	Ditto
9	Set of piping with valves and vacuum circuit	1	Ditto components contained in a wooden crate	Ditto	Ditto
10	Al cylinders for rotors-one with end caps	3	Ditto	Ditto	Ditto
11	Maraging steel cylinders (2 full length & 3 shorter ones)	5	Ditto	Ditto	Ditto
12	Molecular pumps	5	Ditto	Ditto	Ditto
13	Carbon fibre cylinders	7	Ditto	Ditto	Ditto
14	Scoop Assy. (1 with manifold)	2	Ditto	Ditto	Ditto
15	Tube (approx. 1cm x 15 cm)	8	Ditto	Ditto	Ditto
16	Inner magnet holder	28	Ditto	Ditto	Ditto
17	Ring (approx. 1 cm OD)	107	Ditto	Ditto	Ditto
18	Tube (approx. 1cm x 45cm) (scoop part)	19	Note:- centrifuge components	Ditto	Ditto
19	Tube (approx. 1cm x 30cm) (scoop part)	18	Ditto	Ditto	Ditto
20	Sensor holder	36	Ditto	Ditto	Ditto
21	Lower bearing spacer	10	Ditto	Ditto	Ditto
22	Upper damper spacer	6	Ditto	Ditto	Ditto
23	Upper damper (3 cm dia. x 6cm)	8	Diπο	Ditto	Ditto
24	Flange-spacer ring)	4	Ditto	Ditto	Ditto
25	Small sensor holder	6	Ditto	Ditto	Ditto
26	Scoop Assy. part (2cm OD x 4cm)	17	Ditto	Ditto	Ditto
27	Scoop Assy. part-tube (15cm Dia x 7cm)	27	Ditto	Ditto	Ditto
28.	U -cup Upper damper part	5	Ditto	Ditto	Ditto
29	K-F flange upper manifold part	6	Ditto	Ditto	Ditto
30	Magnet outer holder ring (1.5 Pia x 6.5)	13	Ditto	Ditto	Ditto
31	Washer (0.5 cm Dia x 4.5cm)	29	Ditto	Ditto	Ditto
32	Washer (0.4cm Dia x 3cn.	- 31	Ditto	Ditto	Diuo
33	Scoop ring (3 Dia x 2 cm)	9	Ditto	Ditto	Ditto
34	Lower bearing housing cover (5 cm Dia x 1.5 cm)	3	Ditto	Ditto	Ditto

35	Ring (8 cm Dia x 1cm)	1	Ditto	Ditto	Ditto
36	Lower damper spacer	2	Ditto	Ditto	Ditto
37	Ring (2 cm Dia x 1cm)	4	Ditto	Ditto	Ditto
38	Rocker arm	20	Ditto	Ditto	Ditto
39	Pin for assembling (Lower	18	Ditto	Ditto	Ditto
	Assy.) (0.3 cm Dia x4 cm)				
40	Spacer (0.6 cm x 0.2 cm)	55	Ditto	Ditto	Ditto
41	Tubes for scoop Assy. Al (1	10	Ditto	Ditto	Ditto
	cm Dia x 84)				
42	Tubes for scoop Assy. Al (1	20	Ditto	Ditto	Ditto
	cm Dia x 74 cm)				
43	Tubes for scoop Assy. Al	23	Ditto	Ditto	Ditto
	(1.5 cm Dia x 35 cm)				
44	Tubes for scoop Assy. Al	5	Ditto	Ditto	Ditto
	(1.4 cm Dia x 50 cm)				
45	Rings (10.5 cm OD x 1 cm)	5	Ditto	Ditto	Ditto
	Motor coil				
46	Cu scoop material (straight)	20	Note:- centrifuge	Ditto	Ditto
	(0.4-0.6 x cm) (tapered)		components		
47	Motor stator spacer (approx.	80	Ditto	Ditto	Ditto
	1.3 cm x 1.3 cm)				
48	Tube (tails pipe for scoop	22	Ditto	Ditto	Ditto
	assy.) (2.2 Dia x 20)		<u></u>	<u></u>	<u></u>
49	Maraging steel rotor top cap	38	Ditto	Ditto	Ditto
50	Carbon Machine top baffle	7	Ditto	Ditto	Ditto
51	2Carbon machine top cap	10	Ditto	Ditto	Ditto
52	Carbon machine bottom cap	1	Ditto	Ditto	Ditto
53	Aluminium top rotating	13	Ditto	Ditto	Ditto
	magnet holder (small)				
54	Aluminium bottom damper	76	Ditto	Ditto	Ditto
	skin		<u></u>	1	Di
55	Aluminium top roating	6	Ditto	Ditto	Ditto
	magnet holder (large)	6.5	Div	Dian.	Dine
56	Bottom damper housing	25	Ditto	Ditto	Ditto Ditto
57	Spacer flange	16	Ditto	Ditto	
58	Top damper housing	9	Ditto	Dimo Ditto	Ditto
59	Bottom damper cover	14	Ditto	Ditto	Ditto
60	Adjusting screw parts of scoop assembly	21 i9	Ditto Ditto	Ditto	Ditto
61			 	Ditto	Ditto
62	Pivot holder (brass)	18	Ditto	Ditto	Ditto
63	Maraging steel top rotating	41	Ditto	שונט	שונט
<u> </u>	magnet holder	<u> </u>		1	J

64	Feed shroud	66	Ditto	Ditto	Ditto
65	Feed input flange	47	Ditto	Ditto	Ditto
66	Bottom bearing flange	22	Ditto	Ditto	Ditto
67	Feed port	24	Ditto	Ditto	Ditto
68	Top scoop holder	27	Ditto	Ditto	Ditto
69	AINCo magnet holder	43	Ditto	Ditto	Ditto
70	Part of top scoop	54	Ditto	Ditto	Ditto
71	Bottom scoop boss	24	Ditto	Ditto	Ditto
72	Washer	18	Ditto	Ditto	Ditto
73	Top damper adjusting screw	60	Ditto	Ditto	Ditto
74	Part of lower damper	30	Ditto	Ditto	Ditto
75	AINCo magnets	84	Ditto	Ditto	Ditto
76	Co Sm magnets	49	Ditto	Ditto	Ditto
77	Gas manifold	82	Ditto	Ditto	Ditto
78	Transport shield for protection	1	Ditto	Ditto	Ditto
79	Aluminium bottom flange	16	Note:- centrifuge	Ditto	Ditto
			components		

(Al-Tarmiya Equipments)

Ser no.	Item Description	Qty.	Notes	Team No.	Date
1	Special filters	169	Totally destroyed	7 th IAEA	11-22/10 1991
2	Electro magnetic enrichment disk containing (9) double rods and coils	1	Ditto	Ditto	Ditto .
3	High frequency transformery	3	Ditto	Ditto	Ditto
4	Furnaces and collectors for electromagnetic rod	10	Ditto	Ditto	Ditto
5	Double rods without coils	18	Ditto	Ditto	Ditto
6	Cupper coils with (6) carriers	15	Ditto	Ditto	Ditto
7	1200 mm Vacuum Chambers Die	1	Note:- EMIS related items were destroyed by cutting out pieces from each with a plasma torch	Ditto	Ditto

8	1200 mm Vacuum Chambers	5	Ditto	Ditto	Ditto
9	106 mm system Chambers	1	Ditto	Ditto	Ditto
10	Small Experimental Chambers	2	Ditto	Ditto	Ditto
11	1200 mm Vacuum Ducts	2	Ditto	Ditto	Ditto
12	Misc 1200 and 600 mm Vacuum Chamber Cones	19	Ditto	Ditto	Ditto

(Al-Atheer Equipments)

Ser no.	Item Description	Qty.	Notes	Team	Date
				No.	
1	Large cold isostatic press	1	Totally	12 th	26/5/92
			destroyed	IAEA	- 5/6/92
2	Large hot isostatic press and	1	Ditto	Ditto	Ditto
	2 associated				
3	Cold isostatic press	1	Ditto	Ditto	Ditto
4	Hot isostatic press	1	Ditto	Ditto	Ditto
5	Resistance furnace	2	Ditto	Ditto	Ditto
6	Induction furnace	1	Ditto	Ditto	Ditto
7	Vacuum furnace	2	Ditto	Ditto	Ditto
8	Vacuum plasma spray	1	Ditto	Ditto	Ditto
	system				
9	Atomospheric spray system	1	Ditto	Ditto	Ditto
10	Precision turning machine	3	Ditto	Ditto	Ditto
11	Super precision lathe	1	Ditto	Ditto	Ditto
	machine				
12	3-axis coordinate, easuring	1	Ditto	Ditto	Ditto
	machine				
13	Jig Grinding machine	1	Ditto	Ditto	Ditto
14	Viewing windows for high	3	Ditto	Ditto	Ditto
	explosives				
15	High speed camera	1	Ditto	Ditto	Ditto

(ST. EST. FOR HEAVY ENGINEERING EQUIPMENT / DAURA)

Ser no.	Item Description	Qty.	Notes	Team No.	Date
1	Dyes Vacuum chamber for EIMS programe	1	Completely destroyed by 8th IAEA team	7 th IAEA	11-22/10 1992
2	Dyes pressing	1	Ditto	Ditto	Ditto
3	Vacuum Chambers	1	Ditto	Ditto	Ditto
4	Equipment for cylinder belong to the flow forming mach.	1	Ditto	8 th IAEA	11-18/11
5	Flow forming mach. wheels	1	Ditto	Ditto	Ditto
6	Secondary axle for rotory cylinder mach.	1	Ditto	Ditto	Ditto
7	Turning mach. fixer	1	Ditto	Ditto	Ditto
8	Filament for welding mach.	1	Ditto	Ditto	Ditto
9	Vertical balancing mach.	1	Ditto	Ditto	Ditto
10	Horizontal balancing mach.	1	Ditto	Ditto	Ditto
11	Mandril for flow forming mach.	1	Ditto	Ditto	Ditto
12	Power supply electronic cards	1	Ditto	Ditto	Ditto
13	EBW fixer	1	Ditto	Ditto	Ditto
14	Fixer for turning mach.	1	Ditto	Ditto	Ditto

D. THE MISSILE PROGRAMME

Contents:

- 1. Table -1: The Destruction of Items Related to the Missile Programme by the Iraqi side in summer 1991
- 2. Table 2: The Destruction of Items Related to the Missile Programme by Air Raids during the War 1991.
- 3. Table 3: The Destruction of Items Related to Missile

 Programme under the Supervision of the

 UNSCOM since 1991.

TABLE -1
The Destruction of Items Related to the Missile
Programme by the Iraqi side in Summer 1991

Ser no.	Item Description	Qty.	Notes
1	Horizontal testing vechicle, model (2B11 M)	2	
2	Independent testing vechicle, model (9B41 M)	2	
3	Horizontal testing vechicle, model	2	
4	The oxidizer refiling vechile, model (9T30)	14	
5	The fuel refuelling vehicle, model (9T29)	4	
6	Missile transporting vehicle, model (2T3)	16	7 of which were destroyed at Al-Mahaweel, 8 were destroyed at Al-Saadia and one at Al-Nibbae and the remnants were transported to Al-Taji project (144), and the remnants of 9 vehciles had been verified by inspection team UNSCOM (34)
7	Small vechile for missiles transport among stores and work shops, model (2T5)	9	8 of which were destroyed at Al-Nibbae and one at Al-Taji.
8	Iraqi made decoy launcher	5	
9	Iraqi made testing and launching vehicle	4	The remnants had been verified by UNSCOM - 34 inspection team
10	Spare parts of transporting vehicle, model (2W1M)	1	
11	Scud and Al-Hussain missiles	85	The remnants had been transported to project (144) at the request of UNSCOM-31 inspection team and had been verified by UNSCOM -34
12	Training Scud Engine	3	Ditto
13	Sectional scud engine	2	Ditto
14	Nozzles for Scud engine (mock-up)	3	Ditto
15	Gyroscope (10)	107	Ditto

16	Gyroscope (9)	110	Ditto
17	Gyroscope (12)	98	Ditto
18	Scud and Al-Hussain warheads	133	of which (45) warheads were modified for chemical warheads. All warheads were verified by UNSCOM teams 31,34 and chemical and biological
			inspections teams.
19	Fuel tank for Al-Hussain Missile	83	
20	Oxidizer tank for Al- Hussain missile	52	
21	Warheads for Al-Hussain missile (empty)	76	
22	Engine cover tail for Al-Hussain missile	50	
23	Fins for Al-Hussain missile	80	
24	Parts manufactured and semimanufactured (imported)	ring (200) sets for the item 1,2,3, & 4 above	
25	Parts manufactured locally for the items 1,2,3,4 & 5 above	Ditto	
26	Dyes and tools	approx (100)	
27.	Imported parts for arming & safety fuze for Al-Hussain missile	used in ring (200) sets	
28	Torus air bottle (imported)	74	
29	Fuel and oxidizer shut off valves for Al-Hussain missile, and its disassembled parts	250 sets	Verified by UNSCOM -34
30	Primary Suel tanks	70	
31	Steel structure for Al- Waleed Launcher	8 pcs	
32	Cabin equipment for test and firing vehicles	4 pcs	
33	Instruments and electrical	10 set	

			
ļ	parts for test & firing		
	vechiles		
34	Moulds and fixtures for	31	
	rubber parts		
35	Fixtures and tools for	9	
1	welding		
36	Fixtures placed on dollies to	8	
	transport the BADR/2000	Ŭ	
	motor		
37			
	Decoy for BADR/2000	1	
38	Turbopump unit (imported)	35	
39	Fuel and oxidizer injectors	Hundreds	
	(imported)	of thousands	
10	Florible vines (1965	Hundreds	
40	Flexible pipes (different)	nunareas of each	
	types (imported)		
41	Turbine wheel (imported)	abuot 1200	
42	Casting and forging parts	Hundreds	
	(imported)		
43	Shaft of turbopump unit	Hundreds	
1	(imported)		
44	Explosive charges with its	Thousands	
	plugs (imported)		
45	Reducer valves (imported)	Hundreds	
46	Standard parts	Thousands	
47	Dyes (imported)	About 20	
L		10 ton	
48	Hydrazine fuel (imported)		
49	Pipes with its connections	50 of each	
	(local attempts)	type	
50	Metal rings different sizes	10 of each	
	(local attempts)	type	
51	Parts of gas generator (local	50 of each	
	attempts)	part	
52	parts of heat exchanger	50 of each	
	(local attempts)	part	
53	Inner and outer shells for	Tens of	Local attmpts failed due to
	combustion chamber and	1	the lack of experience in
	nozzles (local attempts)	samples	flow forming technology.
	nozzios (rocar actempo)		Many foreign companies
1			refused or were unable to
			1
2.	10	T	provide such technology.
36	Corrugated rings (local	Tens of rejected	Unsuccessful attempts to get
	attempts)	samples	the exact shape because of
L	<u> </u>	Jampies	<u> </u>

			many technical difficulties, deformation and tearing of the sheet metals.
37	Precise parts of valves (local attempts)	Tens of rejected samples	These samples were rejected because they fell short of the requirment of high accuracy.
38	Electrical and mechanical parts used in gyro manufacturing (imported)	Ten thousand	Used in manufacturing about 800 sets. Important parts didn't arrive to Iraq.
39	Invertor (imported)	2	
40	Barometric relay unit (sam- assembled) and individual parts (imported)	Many thousands	Used in manufacturing about 1000 units
41	Amppule battery (imported)	25	
42	Moulds for plastic metallic parts (imported)	50	
43	Different electrical & electronical parts cables, relays, connectors (imported)	Ten thousand	
44	Gyroscope (imported)	Two sets	They were rejeted because of insufficient experience and some imported parts were not received.
45	Computer (analogue) (local manufacturing attempts)	5	
46	Timer (local manufacturing attempts)	6	
47	Junction box (local manufacturing attempts)	4	
48	Emergency destruction system (local manufacturing attempts)	5	
49	Barometric relay unit (local manufacturing attempts)	5	
50	Harness (local manufacturing attempts)	6	
51	Firing cables (local manufacturing attempts)	8	
52	On board switch	9	
53	Different mechanical parts used for gyro manufacturing	Tens	Rejected because of insufficient experience and

	(local manufacturing attempts) required		the required machines were not completely received.
54	Longitudinal acceleration integrating gyro	20	All prototypes were not completely assembled.
55	Combat launchers type (9n117M)	4	- Two chassis in Basmaya - Two chassis, arm rotating base in Al-Mansoriyia - Three arms and three rotating bases in Al-Nibbae. The debris had been seen by UNSCOM -34.
56	Iraqi combat launchers (Al-Nida)	4	The debris had been seen by UNSCOM -34.
57	Training launcher type (9n117M)	1	The launcher was dismantled in order to use some parts in reverse engineering. The arm and the base were destroyed in Al-Nibaee, the chassis and the cabinet were destroyed in Falluja (Al-Haswa) and Basmaya respectively. The debris had been seen by UNSCOM-34.

TABLE - 2
The Destruction of Items Related to the Missile
Programme by Air Raids during the War 1991.

Ser no.	Item Description	Qty.	Notes	
1.	Different welding machine	22	These equipment and materials, in addition to the buildings of the project. were destroyed by the air raids during the war. Those destroyed items had been verified by the UNSCOM inspection teams.	
2.	Electric welding machine	1		
3.	Automatic spot welding machine	1		
4.	Circular welding machine	1		
5.	Auto-circular welding machine	1		
6.	Electrical-arch welding machine	2		
7.	Plasma cutting machine	1		
3.	Bending machine	2		
9.	Vertical drilling machine	2		
10.	Rolling machine	1		
11.	Radial drilling machine	2		
12.	Cutting machine	2		
13.	Alignment test equipment	4		
14.	riveting press 5 ton	1		
15.	Different tools, dyes and fixtures	Tens		
16.	Fuel and oxidizer tanks and warheads	Tens		
17.	Plastic and metal parts for fuses	Hundreds		
18.	Different parts for the project activity	Thousands		
19.	Different raw materials	Many tons		
20.	General warehouse for hydraulic materials.		100% Destroyed	

21.	Elecrical workshop	all building	100% Destroyed
	,	& contents	100,02000,02
22.	Mechanical workshop	all building	100% Destroyed
		& contents	
23.	Assembly workshop	all building	100% Destroyed
		& contents	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
24.	Testing and firing vehicle	1	100% Destroyed
25.	System of supplying primary	20	not compeletley destroyed
	fuel and compressed air		
26.	Hydraulic pumps	18	not compeletely destroyed
27.	Testing and electric system	1	100% Destroyed
28.	Universal lathe machine	10	320 - 2500 mm
29.	CNC lathe machine	2	250/270 mm
30.	Universal milling machine	4	400 X 650 mm
31.	CNC milling machine	3	300 X 600 mm
32.	Universal grinding machine	5	150 X 500 mm
33.	Drilling machine	3	
34.	Hydraulic testing stand	1	
35.	Training unit for Hydraulic	1	
	system		
36.	Welding machine	2	
37.	Pipe bending machine	3	
38.	Guilloting shear cutting machine	1	12/3000 mm
39.	Bending machine	2	6/2500 mm
40.	Universal shear cutting	1	250/10 mm
	machine	•	
41.	ARC welding machine	3	400 Amp.
42.	Vertical drilling machine	2	
43.	Flame cutting machine	1	2000/4000 mm
44.	ARC welding machine	6	400 Amp.
45.	Spot welding machine	1	3 mm
46.	Vertical drilling machine		
47.	D.C. Generator	2	24 Volt.
48.	Ohmmeter	3	
49.	Oscilloscope	3	
50.	Building 141 (BELAT AL- SHUHADA)	1	
51.	Two furnaces in building 141	2	
52.	Thermal insulation	1	
	equipment in building 141	<u></u>	

52	Delegges	1
53.	Balances, measuring	1
 	equipment and different	
 	kinds of tools in bulding 141	
54.	Building 146	1
55.	Air-conditioning and utility	5 pcs
	equipment for building 146	
56.	Building 147	1
57.	Weight and control	2
	equipment for building 147	
58.	Building 151	1
59.	Air-Conditioning and utility	3
	equipment for building 151	
60.	Building 153	1
61.	Air-conditioning and utility	5
	equipment for building 153	
62.	A(30)gallons mixer with its	1
	accessories in building 153	
63.	Building 155	1
64.		1
	accessories in building 155	
65.	Air-conditioning and utility	4
	equipment in building 155	
66.	Air-conditioning and utility	1
	equirment in building 156	
67.	Building 162	1
68.	Air-conditioning and utility	5
	equipment in building 162	
69.	building 142	1
70.	building 171	
71.	Assembly, measuring and	2 pcs
	control equipment in	
	building 171	
72.	Air-conditioning and utility	5
	equipment in building 171	
73.	Building 172	1
74.	Test, measuring and control	1
	equipment in building 172	
75.	Air-conditioning and utility	3
1	equipment in building 172	
76.	Building 173	1
77.	Building 191	1
78.	Air-conditioning and utility	3

	equipment in building 191	
79.	Cleaning and drying	4 pcs
	equipment in building 191	4 pes
80.	Building 192	1
81.	Control equipment and water	2
	pump with its accessories in	
{	building 192	
82.	Store No.115 with a quantity	1
	of raw materials	
83.	Building 163	1
84.	Building 164	1
85.	Building 165	1
86.	Mechanical workshop,	1
	building 61	
87.	Restaurant building (11)	
88.	Main utility Building which	15 pcs
	include electrical station,	
	boilers, diesel generators,	
	and water chillers in building	
	(72)	
89.	Electric sub-station, building	1
	(73)	
90.		1
	external networks	
91.	C.N.C. machine	1
92.	Milling machine	1
93.	Rolling machine	1
94.	Radial welding machine	1
95.	Circular and radial welding	1
	fixture	
96.	Assembly welding fixture	
97.	Radial drilling machine	1
98.	Band saw	1
99.	Aging oven	1
100.	Alignment test stand	1
101.	Overhead crane	1
102.	Turning machines	5
103.	Drying furnaces	2
104.	Curing furnaces	2
105.	Three dimensions test	1
106.	machine /DEA	
100.	Workshop 311	1

107.	Workshop 411	1	
108.	Workshop 412	1	
109.	Restaurant	1	
110.	Stores	3	
111.	Building 532	1	
112.	Building 520	1	
113.	Building 562	1	
114.	Building 560	1	
115.	Building 79	1	
116.	Building 510	1	
117.	Building 511	ī	
118.	Building 512	1	
119.	Building 513	1	
120.	Building 514	1	
121.	Building 515	1	
122.	Building 525	1	
123.	Thrust calibration instrument in building 532	15	

TABLE - 3
The Destruction of Items Related to Missile
Programme under the Supervision of the UNSCOM since 1991

Ser. no.	Item Description	Qty.	Notes
1.	Missiles (Al-Hussiain)	48	Destroyed by UNSCOM -3
2.	Training Missiles	4	Ditto
3.	Al-Fahad-300	9	Ditto
4.	Al- Hussain warheads	32	Ditto
5.	vehicle for horizontal test	1	Ditto
6.	Independent test vehicle	1	Ditto
7.	Horizontal training vehicle	1	Ditto
8.	Oxidizer filling vehicle	5	Ditto
9.	Fule filling vehicle	4	Ditto
10.	Test and launching vehicle	4	Ditto
11.	Missile carrying vehicle	8	Ditto
12.	Russian Launcher	6	Ditto
13.	Al- Nida'a Launcher	2	Ditto
14.	Al- Waleed Launcher	2	Ditto
15.	Missile container	132	Ditto
16.	Oxidizer tank (filled)	18	Ditto
17.	Main fuel tank (filled)	7	Ditto
18.	Fule tank for ignition (filled)	6	Ditto
19.	Oxidizer tanks (empty)	187	Destroyed by UNSCOM 3 and
			18
20.	A Mobile decoyed launcher	4	Ditto
21.	Decoyed missiles	11	Destroyed by UNSCOM 10
22.	Fixed Launchers (at the Western Zone)	28	Destroyed by UNSCOM 18
23.	Fixed Launchers {(for training)(Al-Taji)}	2	Ditto
24.	Launcher for experiment purposes (Tel-Afer)	1	Ditto
25.	Concrete base and civil engineering work (At the Western Zone):		Ditto
26.	Decoyed structure for a fixed launcher at the Western Zone.		Ditto
27.	Special aluminium container for the special head of Al-	11	Destroyed by UNSCOM -3

	Hussain Missile.		
28.	Conventional warhead for	2	Destroyed by UNSCOM -3
	Al- Hussain Missile		
	(structure only)		
29.	Oxidizer tank	1	Destroyed by UNSCOM -3
30.	Fuel tank	1	Ditto
31.	Nose of half tank and dishes	Tens	Ditto
32.	Aluminium head 122 mm	12000	Ditto
33.	Incompleted steel head	4000	Ditto
	122mm		
34.	Dye for dishes	1	Ditto
35.	Air cylinder	12	Ditto
36.	Triple holder with part of a	3	It was in gable no. (15) and had
	transportation trolley	•	been verified by the previous
			inspection team. Though it was
			partially destroyed, the
	[inspection team UNSCOM-28
			directed that it should be
			destroyed compeletely.
37.	Fixtures of destroyed tank	2	Ditto
	for the production line.		
38.	Small parts for sub-systems	tens	Ditto
	of the tanks (pieces of		
	connected pipes & other		
	terminations)		
39.	Fixed launcher arm structure	23	During the period from 10 to 15
		pcs.	Aug. 1990
40.	Arm holder	21	Ditto
		pcs.	
41.	The upper joint hinge for the	156	Ditto
	main hydraulic cylinder	pcs.	
42.	The lower joint hinge for the	37	Ditto
<u> </u>	main hydraulic cylinder	pcs.	
43.	fixed launcher stool	12	Ditto
		pcs.	
44.	Mobile launcher under	1 pcs.	Ditto
	construction	1	
45.	Rotating and fire adjustment	9 pcs.	Ditto
I	Troubling and the adjustification	POO.	Ditto

	missile		
46.	Concrete base for fixed launcher assembling	9 pcs.	(2) of them in Al-Qaqa'a site, (2) in Al-Dorah site and (5) of them in Al-Nahrawan site.
47.	Fixtures of assembling fixed launchers parts.	2 pcs.	Destroyed by UNSCOM -8
48.	primary experimental fixed launchers. Saddam Base.	1 pcs.	Destroyed by UNSCOM -8
49.	Grain core (mandrel) in bldg. 162	2 pcs.	Ditto
50.	Assembling tools for casting (casting top) in bldg. 162	2 pcs.	Ditto
51.	Tools for shaping the end of the motor (displacement plate) in bldg. 162	2 pcs.	Ditto
52.	Tools for fixing the core from the upper side (casting centering) in bldg. 162	2 pcs.	Ditto
53.	Tools for fixing the core from the lower side (casting centering) in bldg. 162	2 pcs.	Ditto
54.	Cover plate in bldg. 162	2 pcs.	Ditto
55.	A mock-up for Bader (2000) missile	1 pc	Ditto
56.	Dollies for Badr (2000).	4 pcs.	Ditto
57.	Mixer 300 gallon .	2 pcs.	Destroyed by UNSCOM (31 and 34)
58.	Bowl with its covers	3 pcs.	Ditto
59.	Control equipment for mixer 300 gallon in building 154	2 units	
60.	Casting and curing tank in building 162	2 pcs.	Ditto
61.	Tilting mechanism in building 162	2 pcs.	Ditto
62.	Filting mechanism with cradle in building 192	1 pc	Ditto
63.	Calender in building 141	1 pc	Ditto
64.	Press 300 ton in building 141	1 pc	Ditto
65.	Degreasing unit in building 141	l pc	Ditto

66.	Sand blasting unit in building	Inc	Ditto
.	141	1 pc	
67.	Tank near building 252	2 pcs.	Ditto
68.	Double cone drier in building	1 pc	Ditto
	145	<u> </u>	
69.	Grinder in building 146	2 pcs.	Ditto
70.	Blade sifter in building 146	1 pc	Ditto
71.	Filter in building 146	1 pc	Ditto
72.	Control unit for drying and grinding in building 146	2 units	Destroyed by UNSCOM (31,34)
73.	Building 141		Ditto
74.	Building 148		Ditto
75.	Building 155		Ditto
76.	Building 156		Ditto
<i>7</i> 7.	Building 162		Ditto
78.	Building 145		Ditto
79.	Building 146		Ditto
80.	Building 147		Ditto
81.	The second welding	I pc	Ditto
	positioner (the upper part)	•	
	seal no. 05298		
82.	The second welding	l pc	Ditto
	positioner (the lower part)		
	seal no. 05299		
83.	The third welding positioner (the first part) seal no. 05300	1 pc	Ditto
84.	The third welding positioner	1 pc	Ditto
	(the second part) seal no.		
	05302		
85.	The third welding positioner	1 pc	Ditto
	(the third part) seal no.	Ì	
	05303		
86.	third welding positioner (the	1 pc	Ditto
07	fourth part) seal no	<u> </u>	
87.	Maraging steel	114	Ditto
88.	Committee for DEA	pcs.	Dia-
89.	Computer for DEA machine	1 pc	Ditto
90.	Instrone cooling chamber Instrone measurement unit	l pc	Ditto
91.	Coolers	1 pc	Ditto
92.	Dollies	2 pcs.	Ditto
93.	Tig longitudinal welder, seal	2 pcs.	Ditto
	116 Iongituaniai weiget, seat	1	Ditto

	no. 05290		
94.	Extruder, seal no. 05294	1 pc	Ditto
95.	Cnc turing lathe seal no. 05306 & 05634	2 pcs.	Ditto
96.	Hydraulic press seal no. 05311	l pc	Ditto
97.	Longitudinal flange and dome welders	3 pcs.	Ditto
98.	Wrapping machine	3 pcs.	Ditto
99.	Calender	1 pcs.	Ditto
100.	X-Ray gun and accessories seal no. 05635		Destroyed by UNSCOM-31.34
101.	Motor case transport dollies	2 pcs.	Ditto
102.	Aging oven	1 pcs.	Ditto
103.	Sand blasting unit	2 units	Ditto
104.	Shearing machine seal no. 05628	l pc	
105.	Hydraulic press 1600 ton	l pc	Ditto
106.	X-Ray machine seal no .05637	1 pc	Ditto
107.	X-Ray controller seal no. 05638	l pc	Ditto
108.	X-Ray development machine seal no. 05639 & 05640	2 pcs.	Ditto
109.	Lathe seal no.05641 & 05642	2 pcs.	Ditto
110.	Hydraustatic test	1 pc	
111.	Measuring bench	1 pc	Ditto
112.	Coolers	2 pcs.	Ditto
113.	Test stand for rocket motors	2 pcs.	Ditto
114.	Electronic equipment for static test	1 unit	Ditto
115.	Cradle for bader (2000)	1 pc	Ditto
116.	Cooling and heating chamber	2 pcs.	
117.	Building 531		Ditto
118.	Building 532		Dido
119.	Test base no. 2 in Al-Rafah site project 1728	1	Destroyed by UNSCOM-8
120.	Gun(350)mm,complete system in(Hymreen)including the following items:	1	-(5)pipes of(10)m lenght -one breech -(7)slide bearings and all other secondary items such as one projectile left at the

			site. UNSCOM-18 agreed to the manner of destruction and then verified the debris of
			destruction.
121.	Destruction of the materials		The team headed by Mr. Patrace
	stored at the General		visited the site on 6.12.1991 and
	Establishment for		agreed to the manner of
	Automobile production as		destruction.
	follwos:	6	
	-Tubes(350)mm bore dia.and		
	(10)m length	44	
	-Tubes(1000)mm bore		
	dia.and (5-6)m length	15	
	-Slide bearings.	4	
	-Hydraulic recoil cylinders		
	for(1000)mm caliber.	1	
	-Steel breech for(350)mm		
	caliber.	4	
	-Brackets for(1000)mm	_	
	caliber.	1	
100	-Bearing for(350)mm caliber.		
122.	All the remaining charges in		
	Al-Qa'qaa Establishment had been destroyed in the		!
	been destroyed in the presence of Mr.Douglas		
	Englund and his team.	İ	
123.	The remaining (7)slugs had	 	
120.	been destroyed during		
	summer of 1991 by the Iraqi	1	
	side.		
124.	Tracking radar	1	All systems were destroyed
			under the supervision of
	_		UNSCOM (MG-2)
125.	Balancing machine	1	It was destroyed under the
}			supervision of UNSCOM (MG-
			4) on 23/7/1995
126.	V.cuum Furnace	2	Destroyed under the supevision
			of UNSCOM(MG-4) on
			23/7/1995
127.	Flow forming machine	2	Destroyed under supevision of
120	Marca 1	 	UNSCOM(MG-4) on 23/7/1995
128.	Meteo-1 (Supersonic] 1	The system was dismantled by

Parachute system)	MG-8 on 25 and 25 of March
	1996.
	The system was then sent to
	UNSCOM headsquarters in
	New York .

E. list of Americans holding important positions at the Special Commission Headquarters in New York

1. Ducifer Charles

Deputy Executive Chairman

2. Moor James

Director of Operation

Missile Team

- 3.Ritter Scott
- 4. Jarrabee John
- 5. Silver Mark
- 6. Mecarthy Tim
- 7. Curits Gentry

Biological Team

- 8. Spertzel Richard
- 9. Krikorian Debra
- 10. Semman Diane

Chemical Team

- 11. Blades Timothy
- 12. Black Steve

F. list of Names of American Experts Worked at Baghdad Monitoring and Verification Center in Iraq

During the Period from August 1994 to 25 October 1997

į	Ser.	NAME	
	ì	A'ARON HERBERT	1
į	2	ABRIL FERDINAND	į
1	3	ABSHER DONALD	:
ĺ		ADAMOVICZ JEFF	
•	5	ADAMSON CRECORY	i
1	6	ANDERSON ANDREW	į
•	7	ANDREWS DAVID	i
	8	AYERS TIM	i
	9	BAFF KEVIN	i
į	10	BAGRDASSARIAN TACK	i
•	11	BALAN TOM	i
İ	12	BALDWIN STEVE	
	13	BALES PHILIP	!
1	14	BECK CHRISTOPHER	į
;		BELK VICTOR	i
•		BELL ALAN	1
1	17	BENFORD JASON	ı
:		BOCK COLBY	j
1		BOSTON RONALD	í
;		BOUGHNER STEVEN	i
į	21	BOWMAN ERIC	i
1		BOYLE ROBERT	1
ı		BRASI ANTHONY	i
1		BRUBAKER GERALD	i
1	25	BURANS JAMES	1
;		BURKETT PHILIP	į
1		BURNETTE JAMES	
į		BUTTERFIELD EDWARD	i
1	29	BYLAN THOMAS	i
1	30	CARPENTER JEREMY	i
;	3:	CECIL DENNIS	i
ı	32	CHARTER KATHLEEN	
•	33	CHURILLA ALBERT	
i	34	CILBERT JASON	1
:	35	CLEM RICHARD	!
		COKER ALEX	
		COLEMAN SYLVESTER	i
ł	38	COLLINS DOUGLAS	i
•	39	COUSSA PAUL	,
	4 C	CURTIN JAMIE	ì
	41	DERK BRETT	*
:	42	TISILVERO THOMAS	1
ı	43 1	DIETRICH DAVID	t
	44 1	DISILVERIO TOM	i
•	45	DOUBS MICHAEL	•
		DOWNTO JONES FELIX	
		DUELFER CHAFTES	į
•	48	EVANS FRANK	!
•	49 50	FIASCO VILLIAM	ŧ
	JU	FIELDS GEORGE	i

Ser	۲. ا	NAME
	1	FLASCO BILL
5		GALLEGOS CHRISTOPHE
5		GAMILIES DONALD
1 54		GAMILLES DON
5		GORN DAVID
56	- :	
5		GRIMM DENNIS GROMOLL JENNY
58		GROVE KEN
5		COUNTS STEVE
60	5	GUY PAMELA GUYTON GRECORY
	, !	GUYTON GRECORY
6:		HAGER JENNIFER
6		HAMID RASHID
6.	•	HARDEN TERRY
65		HAYES DAVID
		HEDRICK KEN
67	7	HENDERSHOT DANIEL
68		HENDRICK KEN
1 6		HENSTRIDGE ROBERT
1 /6	ر	HERMENEGILDO ORTIZ
. //	L	HOFSTETTER KENNETH
1 73	2	HOLLSTEIN JOHN
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7		INNIS MICHACL
, 78		JACKSON ERIC
	9	JAIMES JOSEPH
! 8		JOHAN THOMAS
•		JOHANI TOM
		JOHNSON PETER
		JOHNSTON CORY
		KEARNEY PATRICK
• -		KELLY DON
		KHOZAIM HAMID
0		KINCHELOF WILLIAM
` .		KNIGHT ROGER KRAMER KEVIN
' -	•	KRIKORIAN DEBRA
1		KURTZ PAUL
٠,		LAMBERT MARK
1 9		LANAUX RONALD
		LANGSFORD JOE
		LAVENDER GRAIC
1 9		LEIENDECKER ROBERT
, 9	7	LINEHAN JOHN
•		LITTLE HENERY
, 9		LIVINGSTONE LAYNE
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	MARTELLE GUY	•
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103	MCGEE GLENN	•
104	MEJASKI JOSEPH	1
	MILLER BRUCE	ļ
105 106 107 108	MISKELL RONALD	
107	MIURA GEORGE	į
108	MOJICA THOMAS	
109	MOORE JAMES	:
110	MORPHY WENDELL	ı
111	MOZWTAK JOHN	{
112	MULLING JOHN	- 1
113	MURPHY WENDELL	:
114	NELSON WILLIAM	t
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116	NISBET MATTHEW	
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119	OBRIEN THOMAS	'
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121	ORTIZ ED	ì
122	ORTIZ HERIBERTO	
	PARTAN FRANK	
124	PANNELL LANY	
125	PATILIS GREGORY	1
	PERKINS THOMAS	
127	PHILLIPS JOHN	į
128	PROTER DAVID	,
1 129	PRUSCHKI DAVID	
130	RAHAWI MOHAMMED	i
	REED ROBERT	ł
132	RELMAN KENNETH	
. 133	RLADES TIMOTHY	
134	ROCKWOOD LAURA	Ī
135	ROUSE DANNY	
130	RUSKE BILL	i
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1119	SALES PHILIP	•
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	SCHNABEL RICHARD	
.43	SCHRYER MIKE	
144	SEAMAN DIANE	
145	SEARS JAMES	
146	SHANKS ROBERT	
147	SHIRASAGO DALE	
1 148	SHRIER MICHAEL	
149	SLANKAS JOHN	
150	SLANKAS TOM	

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	151	SNOW JAMES
Ì	152	SPERTZEL RICHARD
1	153	STALLINGS JOHN
1	154	GTEWART TIM
i	155	STOCKER JEFFREY
:	156	STROBBE DARREN
1	157	STROTHER KEITH
i	158	SUIL THERESA
•	159	SWEARENGEN JAMES
i	160	TAYLOP DAVID
١	161	TIERNEY WILLIAM
!		TIMPERLEY CHRIS
!		TOZANI THOMAS
	•	TREIBLE SCOTT
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ï		WALTON DONALD
•		WEST TERRY WHALEY DAVID
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:		WILDER GARY
•		WILLHIGHT THOMAS
i	• • •	WILLIAMS DAVID
•	-	WOLF JUSTIN
i	176	ZEISE KEVIN

List of the American Experts who Participated in UNSCOM Operations (inspections and discussins) in Iraq from 15 May 1991 to 25 October 1997

	NAME.	
Ser.	NAME	
1	ABDALLAH SHERIF	•
2	ABRAM DAVID	
3	ADAMS JOHN	l
4	ADAMSON GREGORY	1
۱s	AKHADARY ANDREW	
6	ALEXANDER DAVID	ŧ
7	ALEXANDER RIDLEY	1
8	ALLEN BARRY	
9	ALLEN C	į
10	ANDERSON STEVE	
11	ANDRADE G	
12	ANDRADE STEPHEN	
13	ANDREWS DAVID	į
14	ANTTONEN JOHN	Ī
15	ANZELON GEORGE	
16	ARCHELETA M	i
17	ARMSTRONG STUART	,
_	AYOUB MIKE	
19	BADER ED	:
20	BAGGSON MAURICC	- 1
21	BAILEY TOREN	
2.2	BAILEY RUSSELL	1
23	BAKHIET S	
; 24	BALDWIN STEVEN	1
25	BALES PHILIP	1
26	BANKS ARTHUR	•
27	BARQUIST RICHARD F	
28	BARR JERRY	
25	BEATTIE DENNIS	
30	RECHLER JOHN	
31	BECK VICTOR	
; 32	BECKER DENNIS	
33	BEDEAU LAWRENCE	
34	BEHME P	
35	BELCHER MELVIN	
36	BELK VICTOR	
3 7 1 38	BENET HELEN BENNETT EARL	
38	BENNING MICHAEL	
1 40	SERNABE GILBERT	
41	BERNARD STACY	
	BESANCON CHARLES	
42	BEZEEUW KURT	
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45	BLACK STEVEN	
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ļ		BROCK THOMAS	- !
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1	64	BROWN CLENN	-
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	66	BROWN JOHN	1
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ļ	70	BRYAN JAMES	
1	71	BRYCE PEGGY	Ì
•	72	BUDZINSKI DAVID	
	73	BULLARD WILLIAM	i
i	74	BURANS JAMES	į
:		BURKS CHARLES	i
į		BURNET L CHRIS	- ;
i	i	BURNER BARBARA	-
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1		BURNETTE KATHLEEN	i
		BURNS ERSKINE	1
		BUTTERFIELD EDWARD	į
!		CALUWELL MICHAEL	:
		CALVIN WOOD	İ
	84	CAMPBELL ERNEST	
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1		CATHEY	
1		CENEY JAMES	
	94	CHAMBERS LARRY	
•	95	CHARTERS KATHLEEN	
1	96	CHAUGHNESSY MICHAEL P	
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	CLARK BRIAN	i
102	CLARK ERIC	1
103	CLAVIAN JOHN S	
104	CLEM RICHARD	1
	COGHILL ALAN	
106	COLEMAN SYLYESTER	
107	COLIN ERNEST WILLIAM	
108	COLLIN S.	
109	COLLINS DOUGLAS	-
	CONAWAY W	
111	CONDE FERNANDO	-
112	CONRATH EDWARD	
:	COOPER P	-
114	CORDNER ROBERT	Ì
115	CORNEP GARY	!
	CORREY LARRY	ì
	COTTREL S	
	COUSSA PAUL	٠
119	CRISWELL RAYMOND	!
	CROSSFIELD PAUL	,
	CRUZ MIGUEL	
	CULP JOHN	١
•	CURRER PAUL	١
	DANIELSON JAY P	
	DARGON JOSEPH DAVID NINOS	1
120	DAVID MINOS	į
	DAVIES BILLY	i
129	DAVIS TAY	
130	DAVIS W	
131	DAYTON CLIFF	
132	DECOWSKY DOUGLAS	
. 133	DEE	
134	DEINHARDT KURT	
135	DELUCA MIKE	
136	DEMATORIBUS MICHAEL	
13/	DEMARINO MICHAEL	
118	DENNIS CHARLES	
139	DENNIS STEVE	
140	DENT STEPHEN	
1	DEPREE STEPHEN	
142	DLRR BRER DIAZ WALTER	
144	DIENHARDT KURT	
145	DIGNAN TIMOTHY	
146	DISILVERIO THOMAS	
147	DITILLO JOHN	
148	DIXON G	
149	DOBBS MICHAEL	
150	DOMKE BILL	
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: 151	DOMKE WILLIAM	
	DONOHUE DAVID	¥
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	DORN DAVE DOWNING GREG	1
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150	DUELEER C. A DUELFER CHARLES	j
	DUELLER CHARLES	
	DULLAHAN J	!
1 150	DUNES RICHARD	į
160	DUNTGAN KEN DUPREE STEPHEN	ĺ
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167	DYLAN THOMAS ECKERT WILIAM D	1
163	ECKHART GLEN	- (
162 163 164 165	FITTEN ED ITC	
165	EITZEN ED LTC ENGLUND DOUGLAS M	i
167	ERIEDMAN ABIGAIL	- ;
	EROWN EDWARD	i
	ERTEL WAYNE	- 1
170	ESSWEIN CHARLES	i
171	EVANS FRANK	ŧ
172	EVANS ROBERT	1
	EVERHART SYLVESTER	i
1 175	EZZELL JHON FAIN DOUGLAS	1
	FANCHER RAYMOND	
177	FEAR JAMES	i
178	FEAR JAMES	į
179	FIASCO WILLIAM	;
180	FICKLIN BOB	
191	FISHER JASON	į
182	FLAMM KEVIN	į
183	FLASCO BILL	i
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186	FOGELMARK JOHN	1
1 187	FOSTER JEFF	
188	FRAGA CARIOS FRANKE STEVE	
189	FRANZ DAVID	1
, 191	FRAZIER JOSEPH	;
1 54.2	GABR WALID	i
193	GALATI TERENCE	i
194	GALLAGHER CAROLINE	
195	GALLUCCI ROBERT	
196	GAMILLES DONALD	
197	GANGER JOHN	
19s	GARN'T RANDY	
199	GEISBERT BILL	
200	GENTRY CURTIS	

iser.	NAME	
	GEOCE DAVID	
	GEOFFREY ST. JOHN	
203		1
	GIRDANY MARTHA	į.
	GLENN SANTOS	1
	GLOVER JERRY	i
1 207	GOERINGER KABRENA	i
1	COLDBERG DAVID	•
	GOODMAN SHARON	!
210	GOSCHY PAUL	1
	CRANNIS EDWARD	
•	GRAIG CHESTER	:
213	GRANT RANDY	1
:	GRIFFIN JOHN	
	GROVE CLARK	1
-	GROVE GORDEN	,
	GRUBBS ROGER	-
:	GRUDER STEVE	į
	GUILLERMIN EDWARD	į
	GUSH ALAN	•
221	CUTHRIE LARRY	ļ
	CUYTOON ROBERT	;
223	GUYTOON B	
	HAFF CHARLES	1
225	HAGUE ROBERT	·
226	HAJIB YAH	
227	HAKKILA A	ļ
228	HAIRSTON HERBERT	
229	HARDIN MIKE	1
230	HARPER BRUCE	
	HARPER CHARLES	ļ
232	HARROP WILLIAN	
233	HARTMAN M	9
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235	HATCOCK RALPH	!
236	HATHAWAY JAMES	
237 238	HAWKINS ANTHONY	
330	HAYDU NANIEL HAYES DAVID	
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241	HAYMANN JOHN HEALEY GEORGE	
:	HELSEL JOHN	
	HERNANDEZ IGNACIO	
2.1.1	HEZELTINE PHILIP	
245	INIDLE SVEIN	
246	HOFF LARKY	
247	HOGAN JACK	
248	HOGOBOOM DAVID	
249	HOLSTEIN JOHN	
250	HOOKER GREGORY	

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	HOOPER RICHARD	
252	HOWE GARY	1
257	HOWSMAN STANLEY	!
254	HUBBARD HARVEY	1
255	HUBBARD PETER	i
256	HUMPHREY RALPH	1
257	HURLEY	!
258	HUXSOLL DAVID	
259	HYLAND JOHN J	
260	IKELLY DONALD	1
261	IRELAND LESLIE	1
262	IRWIN FRANK	1
263	ISENBERG DAVID	!
264	JACKSON ERIC	
265	JAMIES JOSEPH	
	JANSEN KAREN	1
:	JEFFERSON RON	i
	JEFFREY BEDELL	
269	JEMRSON ALEXANDER	:
270	JOHANT THOMAS	;
270	JOHNSON BARBARA	i
272	JOHNSON MICHEAL	j
273	JOHNSON SHIRLEY	
	JOHNSON STEVE	ì
275	JOHNSON-WINEGAR A	ì
276	JOHNSTON CHRIS	
277	JOLLY ART	
278	JONES ANDREW	
279	JONES DAVID	
280	JONES STEVEN	
581	JORGENSEN C	. {
282	JULIAN PHILIPS	1
283	KADLEC ROBERT	!
284	KALAL OMAR	:
285	KARAM PIERRE	
286	KAROUSAKIS PANOS	i
287	KASIMATIS DAVID	•
288	KAY DAVID	
289	KEARNEY PATRICK	
. 290	KEEHAN KEVIN	
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292	KELLEY ROBERT	
293	KELLLOGG PAUL	
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296	KEN SANDERS	
297	KENNEDY RICHARD	
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300	KEVIN ST. LOUIS	

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i	192	NICHOLS JERI	
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	394	NISRET MATT	
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