

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. CONTRACT ID CODE

PAGES OF PAGES  
1 | 1 | 1

2. AMENDMENT/MODIFICATION  
M046

3. EFFECTIVE DATE  
See Block 16C

4. REQUISITION/PURCHASE REQ. NO.  
NOPR

5. PROJECT NO. (if applicable)

6. ISSUED BY

U. S. Department of Energy  
Oak Ridge Operations Office, AD-421  
P. O. Box 2001  
Oak Ridge, TN 37831-8757

7. ADMINISTERED BY (if other than Item 6)

JAN 15 2002

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

UT-Battelle, LLC  
Attn: David C. Rice, Director, Contracts  
P. O. Box 2008  
Oak Ridge, TN 37831-6443

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

X

10A. MODIFICATION OF CONTRACT/ORDER  
DE-AC05-00OR22725

10B. DATED (SEE ITEM 13)  
October 18, 1999

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATION**

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of offers \_\_\_ is extended. \_\_\_ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning \_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOU ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ ORDERS, IT MODIFIES CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:  
Clause I-140 and P.L. 95-91

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor [ ] is not, [x] is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/ MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  
The purpose of this modification is to revise Appendix E by incorporating Requirements Change Notice No. OR-07 attached hereto.

Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)  
Greg L. Turner  
Chief Financial Officer

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)  
Susan G. Hiser  
Contracting Officer

15B CONTRACTOR/OFFEROR

*Greg L. Turner*  
(Signature of person authorized to sign)

15C. DATE SIGNED

1/16/02

16B. UNITED STATES OF AMERICA  
BY *Susan G. Hiser*  
(Signature of Contracting Officer)

16C. DATE SIGNED

1/18/02

DOE Form  
(04/1991)

**U.S. Department of Energy  
REQUIREMENTS CHANGE NOTICE**

No.:

OR-07

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PROJECT:  
Contract Baseline Documentation

LOCATION:  
Oak Ridge, Tennessee

CONTRACTOR:  
UT-Battelle, LLC

CONTRACT NO.:  
DE-AC05-00OR22725  
Special Contracts Requirements Clause I-140

DATE OF CONTRACT:  
April 1, 2000

This Requirements Change Notice (RCN) No. OR 07 incorporates into Appendix E, Contract No. DE-AC05-00OR22725, the attached list of applicable documents which have been assessed against the terms and conditions of the subject contract in accordance with the above referenced clause. Changes to Appendix E are indicated by bold type. Environment, Safety and Health (ES&H)-related directives are indicated by italics. Below is a list of the directives incorporated herein:

**ADDITIONS:**

DOE O 203.1, updated compliance line, only      DOE O 420.1, C3, add compliance line, only      ORO O 550, Ch. II  
DOE O 225.1A      ORO O 530, Ch. III, C3

**ES&H-related directives appended to the numbered list from WSS Set or S/RID Listing**

DOE O 151.1A	DOE O 435.1	DOE 5400.5	ORO O 150, Ch. IV, C3
DOE O 231.1	DOE M 435.1-1	DOE 5480.4	
DOE M 231.1-1	DOE O 440.1, C1 and C2	DOE 5480.19, C1	
DOE O 232.1A	DOE O 440.1A	DOE 5480.20A	
DOE O 420.1, and C3	DOE O 440.2, C2	DOE 5480.21	
DOE O 425.1B	DOE O 460.1A	DOE 5480.22, C2	
DOE O 433.1	DOE 5400.1	DOE 5480.23, and C1	

**DELETIONS:**

DOE O 110.3, compliance line, only      DOE N 205.1, compliance line, only      DOE O 430.1A, compliance line, only  
DOE N 142.1, compliance line, only      DOE N 205.2, compliance line, only      DOE N 430.2

**REFORMATTED COMPLIANCE LINE:**

DOE N 203.1      DOE O 551.1A      DOE 2110.1A      DOE 5670.1A      ORIG 4300.2B

**OTHER APPLICABLE DIRECTIVES:**

WSS, Chg. 15, 16, & 17 - Other Industrial, Radiological, Non-Radiological Hazard Facilities  
WSS, Chg. 7, 8, & 9 - Radiochemical Research Facilities, Buildings 2026 and 5505  
WSS, Chg. 6, 7, & 8 - Radiochemical Technology Facilities, Buildings 3027 and 3047  
WSS, Chg. 6, 7, & 8 - Radiochemical Engineering Development Center, Buildings 7920, 7930, and support areas  
WSS, Chg. 6, 7, & 8 - Radiochemical Development Facility, Building 3019 and its ancillary buildings  
WSS, Chg. 6, 7, & 8 - Irradiated Mtls. Exam. & Test. Fac. & Irrad. Fuels Exam. Lab., Bldgs. 3025E, 3525, & support areas  
WSS, Chg. 6, 7, & 8 - High Flux Isotope Reactor  
WSS, Chg. 6, 7, & 8 - Nuclear Hot Cell Facility, Building 4501  
S/RID, Type 2, Chg 2, & 3 - Comprehensive Emergency Management System

DOE AUTHORIZING SIGNATURE:

George J. Malosh, Contracting Officer's Representative

DATE:

12/31/2001

## OUTLINE OF CHANGES

December 31, 2001

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REQUIRED COMPLIANCE DOCUMENT	DATE	TITLE	THROUGH CHANGE	AUTHORIZATION
<b>DOE O 110.3</b> <i>Deleted compliance line, IP closed.</i>	11/03/1999	CONFERENCE MANAGEMENT		IP closure approved 09/19/2001.
<b>DOE N 142.1</b> <i>Deleted compliance line, IP closed.</i>	07/14/1999	UNCLASSIFIED FOREIGN VISITS AND ASSIGNMENTS		IP closure approved 11/19/2001.
<b>DOE O 151.1A</b> <i>Appended</i>	11/02/2000	COMPREHENSIVE EMERGENCY MANAGEMENT SYSTEM		<i>Appended to administrative from S/RID.</i>
<b>DOE N 205.1</b> <i>Deleted compliance line, IP closed.</i>	07/26/1999	UNCLASSIFIED CYBER SECURITY PROGRAM		IP closure approved 10/11/2001.
<b>DOE N 205.2</b> <i>Deleted compliance line, IP closed.</i>	11/01/1999	FOREIGN NATIONAL ACCESS TO DOE CYBER SYSTEMS		IP closure approved 10/19/2001.
<b>DOE O 231.1</b> <i>Appended</i>	09/30/1995	ENVIRONMENT, SAFETY, AND HEALTH REPORTING		<i>Appended to administrative from WSS.</i>
<b>DOE M 231.1-1</b> <i>Appended</i>	09/30/1995	ENVIRONMENT, SAFETY, AND HEALTH REPORTING MANUAL		<i>Appended to administrative from WSS.</i>
<b>DOE O 232.1A</b> <i>Appended</i>	07/21/1997	OCCURRENCE REPORTING AND PROCESSING OF OPERATIONS INFORMATION		<i>Appended to administrative from S/RID.</i>
<b>DOE O 420.1</b> <i>Appended</i>	10/13/1995	FACILITY SAFETY		<i>Appended to administrative from WSS.</i>
<b>DOE O 420.1</b> <i>Appended; added compliance line.</i>	10/13/1995	FACILITY SAFETY	3 11/22/2001	<i>Appended to administrative from WSS.</i>
<b>DOE O 425.1B</b> <i>Appended</i>	12/21/2000	STARTUP AND RESTART OF NUCLEAR FACILITIES		<i>Appended to administrative from WSS.</i>
<b>DOE O 430.1A</b> <i>Deleted compliance line, IP closed.</i>	10/14/1998	LIFE CYCLE ASSET MANAGEMENT		IP closure approved 09/24/2001

**OUTLINE OF CHANGES**

<b>REQUIRED COMPLIANCE DOCUMENT</b>	<b>DATE</b>	<b>TITLE</b>	<b>THROUGH CHANGE</b>	<b>AUTHORIZATION</b>
<b>DOE N 430.2</b> <i>Deletion</i>	06/13/2000	EXTENSION OF DOE O 430.2, IN-HOUSE ENERGY MANAGEMENT		Notice Expired
<b>DOE O 433.1</b> <i>Appended</i>	06/01/2001	MAINTENANCE MANAGEMENT PROGRAM FOR DOE NUCLEAR FACILITIES		<i>Appended to administrative from WSS.</i>
<b>DOE O 435.1</b> <i>Appended</i>	07/09/1999	RADIOACTIVE WASTE MANAGEMENT		<i>Appended to administrative from WSS.</i>
<b>DOE M 435.1-1</b> <i>Appended</i>	07/09/1999	RADIOACTIVE WASTE MANAGEMENT MANUAL		<i>Appended to administrative from WSS.</i>
<b>DOE O 440.1</b> <i>Appended</i>	09/30/1995	WORKER PROTECTION MANAGEMENT FOR DOE FEDERAL AND CONTRACTOR EMPLOYEES	1 10/26/1995	<i>Appended to administrative from WSS.</i>
<b>DOE O 440.1</b> <i>Appended</i>	09/30/1995	WORKER PROTECTION MANAGEMENT FOR DOE FEDERAL AND CONTRACTOR EMPLOYEES	2 10/21/1996	<i>Appended to administrative from WSS.</i>
<b>DOE O 440.1A</b> <i>Appended</i>	03/27/1998	WORKER PROTECTION MANAGEMENT FOR DOE FEDERAL AND CONTRACTOR EMPLOYEES		<i>Appended to administrative from WSS.</i>
<b>DOE O 440.2</b> <i>Appended</i>	09/25/1995	AVIATION	2 10/26/1995	<i>Appended to administrative from WSS.</i>
<b>DOE O 460.1A</b> <i>Appended</i>	10/02/1996	PACKAGING AND TRANSPORTATION SAFETY		<i>Appended to administrative from WSS.</i>
<b>DOE O 551.1A</b>	08/25/2000	OFFICIAL FOREIGN TRAVEL		Reformatted Compliance Line
<b>DOE 2110.1A</b>	07/14/1988	PRICING OF DEPARTMENTAL MATERIALS AND SERVICES		Reformatted Compliance Line

**OUTLINE OF CHANGES**

<b>REQUIRED COMPLIANCE DOCUMENT</b>	<b>DATE</b>	<b>TITLE</b>	<b>THROUGH CHANGE</b>	<b>AUTHORIZATION</b>
<i>DOE 5400.1 Appended</i>	<i>11/09/1998</i>	<i>GENERAL ENVIRONMENTAL PROTECTION PROGRAM</i>		<i>Appended to administrative from WSS.</i>
<i>DOE 5400.5 Appended</i>	<i>02/08/1990</i>	<i>RADIATION PROTECTION OF THE PUBLIC AND THE ENVIRONMENT</i>		<i>Appended to administrative from WSS.</i>
<i>DOE 5480.4 Appended</i>	<i>05/15/1984</i>	<i>ENVIRONMENTAL PROTECTION, SAFETY, AND HEALTH PROTECTION STANDARDS</i>		<i>Appended to administrative from WSS.</i>
<i>DOE 5480.19 Appended</i>	<i>07/09/1990</i>	<i>CONDUCT OF OPERATIONS REQUIREMENTS FOR DOE FACILITIES</i>	<i>1 05/18/1992</i>	<i>Appended to administrative from WSS.</i>
<i>DOE 5480.20A Appended</i>	<i>11/15/1994</i>	<i>PERSONNEL SELECTION, QUALIFICATION, AND TRAINING REQUIREMENTS FOR DOE NUCLEAR FACILITIES</i>		<i>Appended to administrative from WSS.</i>
<i>DOE 5480.21 Appended</i>	<i>12/24/1991</i>	<i>UNREVIEWED SAFETY QUESTIONS</i>		<i>Appended to administrative from WSS.</i>
<i>DOE 5480.22 Appended</i>	<i>02/25/1992</i>	<i>TECHNICAL SAFETY REQUIREMENTS</i>	<i>2 01/23/1996</i>	<i>Appended to administrative from WSS.</i>
<i>DOE 5480.23 Appended</i>	<i>04/10/1992</i>	<i>NUCLEAR SAFETY ANALYSIS REPORTS</i>		<i>Appended to administrative from WSS.</i>
<i>DOE 5480.23 Appended</i>	<i>04/10/1992</i>	<i>NUCLEAR SAFETY ANALYSIS REPORTS</i>	<i>1 03/10/1994</i>	<i>Appended to administrative from WSS.</i>
<i>DOE 5670.1A</i>	<i>01/15/1992</i>	<i>MANAGEMENT AND CONTROL OF FOREIGN INTELLIGENCE</i>		<i>Reformatted Compliance Line</i>
<i>ORO O 150, Chapter IV Appended</i>	<i>05/31/1996</i>	<i>RADIOLOGICAL ASSISTANCE PROGRAM</i>	<i>3 02/08/2001</i>	<i>Appended to administrative from S/RID.</i>

**OUTLINE OF CHANGES**

<b>REQUIRED COMPLIANCE DOCUMENT</b>	<b>DATE</b>	<b>TITLE</b>	<b>THROUGH CHANGE</b>	<b>AUTHORIZATION</b>
<b>ORIG 4300.2B</b>	12/23/1992	NON-DEPARTMENT OF ENERGY FUNDED WORK (WORK FOR OTHERS)		Reformatted Compliance Line
<b>OD #089</b> <b>WSS Type 1</b>	07/25/1996	OTHER INDUSTRIAL, RADIOLOGICAL, AND NON-RADIOLOGICAL HAZARD FACILITIES	<b>15</b> <b>10/04/2001</b>	UT-Battelle e-mail to ORO dtd 10/04/2001
<i>Correction of an ID Team Report which reads, "DOE Order 231.1, Environment, Safety, and Health Reporting Manual, Chapter II, 2 and 3," and should read, "DOE Manual 231.1-1, Environment, Safety, and Health Reporting Manual, Chapter II, 2 and 3." There are no changes in the requirements.</i>				
<b>OD #090</b> <b>WSS Type 1</b>	07/25/1996	OTHER INDUSTRIAL, RADIOLOGICAL, AND NON-RADIOLOGICAL HAZARD FACILITIES	<b>16</b> <b>10/11/2001</b>	UT-Battelle e-mail to ORO dtd 10/11/2001
<i>Correction of a note in the WSS for 10 CFR 830, Subpart A, "Quality Assurance Requirements," which reads, "applies only to Radiological Facilities (nuclear facilities with less than Cat. 3 quantities of radiological materials)" and should read, "does not apply to non-radiological hazard facilities."</i>				

## OUTLINE OF CHANGES

REQUIRED COMPLIANCE DOCUMENT	DATE	TITLE	THROUGH CHANGE	AUTHORIZATION
<b>OD #091a</b> <b>WSS Type 2</b>	09/30/1996	RADIOCHEMICAL RESEARCH FACILITIES - BLDGS. 2026 & 5505	7 10/16/2001	ORO approval ltr dtd 10/16/2001
	12/17/1996	RADIOCHEMICAL TECHNOLOGY FACILITIES - BLDGS. 3027 & 3047	6 10/16/2001	
	12/17/1996	RADIOCHEMICAL ENGINEERING DEVELOPMENT CENTER - BLDGS 7920, 7930, AND SUPPORT AREAS	6 10/16/2001	
	05/07/1997	RADIOCHEMICAL DEVELOPMENT FACILITY - BLDG. 3019 AND ITS ANCILLARY BUILDINGS	6 10/16/2001	
	05/07/1997	IRRADIATED MATERIALS EXAMINATION AND TESTING FACILITY AND IRRADIATED FUELS EXAMINATION LABORATORY - BLDGS 3025E, 3525, AND SUPPORT AREAS	6 10/16/2001	
	09/10/1998	HIGH FLUX ISOTOPE REACTOR	6 10/16/2001	
	07/01/1999	NUCLEAR HOT CELL FACILITY, BUILDING 4501	6 10/16/2001	
<i>ORO approval of WSS ID Team Final Report for DOE O 433.1, "Maintenance Management Program for DOE Nuclear Facilities."</i>				

**OUTLINE OF CHANGES**

<b>REQUIRED COMPLIANCE DOCUMENT</b>	<b>DATE</b>	<b>TITLE</b>	<b>THROUGH CHANGE</b>	<b>AUTHORIZATION</b>
<b>OD #091b</b> <b>WSS Type 2</b>	09/30/1996	RADIOCHEMICAL RESEARCH FACILITIES - BLDGS. 2026 & 5505	8 10/16/2001	ORO approval ltr dtd 10/16/2001
	12/17/1996	RADIOCHEMICAL TECHNOLOGY FACILITIES - BLDGS. 3027 & 3047	7 10/16/2001	
	12/17/1996	RADIOCHEMICAL ENGINEERING DEVELOPMENT CENTER - BLDGS 7920, 7930, AND SUPPORT AREAS	7 10/16/2001	
	05/07/1997	RADIOCHEMICAL DEVELOPMENT FACILITY - BLDG. 3019 AND ITS ANCILLARY BUILDINGS	7 10/16/2001	
	05/07/1997	IRRADIATED MATERIALS EXAMINATION AND TESTING FACILITY AND IRRADIATED FUELS EXAMINATION LABORATORY - BLDGS 3025E, 3525, AND SUPPORT AREAS	7 10/16/2001	
	09/10/1998	HIGH FLUX ISOTOPE REACTOR	7 10/16/2001	
	07/01/1999	NUCLEAR HOT CELL FACILITY, BUILDING 4501	7 10/16/2001	
<i>ORO approval of WSS ID Team Final Report for DOE O 5480.19, Change 1, "Conduct of Operations Requirements for DOE Facilities."</i>				

## OUTLINE OF CHANGES

December 31, 2001

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REQUIRED COMPLIANCE DOCUMENT	DATE	TITLE	THROUGH CHANGE	AUTHORIZATION
<b>OD #092</b> <b>ORO O 530,</b> <b>Chapter III</b>	09/02/1998	ACCOUNTING	<b>3</b> <b>07/08/2001</b>	ORO ltr dtd 09/04/2001 UT-Battelle ltr dtd 09/18/2001
<i>Adds ORO O 530, Chapter III, Change 3, and deletes Change 2.</i>				
<b>OD #093</b> <b>DOE O 225.1A</b>	11/26/1997	ACCIDENT INVESTIGATIONS		ORO ltr dtd 08/15/2001 UT-Battelle ltr dtd 10/03/2001
<i>Adds DOE O 225.1A</i>				
<b>OD #094</b> <b>DOE N 203.1</b>	10/02/2000	SOFTWARE QUALITY ASSURANCE		ORO Comment/Concurrence Form dtd 09/24/2001 UT-Battelle ltr dtd 09/13/2001
<i>Adds 09/24/2001 approval of a revised IP (Revision 1), dtd 09/13/2001, after ORO's approval of the original IP, dtd 08/06/2001. Reformatted and updated compliance line.</i>				
<b>OD #095</b> <b>WSS Type 1</b>	09/30/1996	RADIOCHEMICAL RESEARCH FACILITIES - BLDGS. 2026 & 5505	<b>9</b> <b>10/26/2001</b>	UT-Battelle e-mail to ORO, dtd 10/26/2001
	12/17/1996	RADIOCHEMICAL TECHNOLOGY FACILITIES - BLDGS. 3027 & 3047	<b>8</b> <b>10/26/2001</b>	
	12/17/1996	RADIOCHEMICAL ENGINEERING DEVELOPMENT CENTER - BLDGS 7920, 7930, AND SUPPORT AREAS	<b>8</b> <b>10/26/2001</b>	
	05/07/1997	RADIOCHEMICAL DEVELOPMENT FACILITY - BLDG. 3019 AND ITS ANCILLARY BUILDINGS	<b>8</b> <b>10/26/2001</b>	

## OUTLINE OF CHANGES

REQUIRED COMPLIANCE DOCUMENT	DATE	TITLE	THROUGH CHANGE	AUTHORIZATION
	05/07/1997	IRRADIATED MATERIALS EXAMINATION AND TESTING FACILITY AND IRRADIATED FUELS EXAMINATION LABORATORY - BLDGS 3025E, 3525, AND SUPPORT AREAS	8 10/26/2001	
	09/10/1998	HIGH FLUX ISOTOPE REACTOR	8 10/26/2001	
	07/01/1999	NUCLEAR HOT CELL FACILITY, BUILDING 4501	8 10/26/2001	
<i>Adds 10 CFR 820, "Procedural Rules for DOE Nuclear Activities."</i>				
<b>OD #096a</b> S/RID Type 2	11/05/1996	COMPREHENSIVE EMERGENCY MANAGEMENT SYSTEM	2 06/25/2001	ORO ltr dtd 06/25/2001 UT-Battelle ltr dtd 04/27/2001
<i>Correction of a previous addition of this S/RID. The original addition created a new category under the S/RID area for ORO O 150, Chapter IV, Change 3, "Radiological Assistance Program (RAP)." The addition should have been listed as a change under "Comprehensive Emergency Management Systems, dated 11/05/1996, as Change 2.</i>				
<b>OD #096b</b> S/RID Type 2	11/05/1996	COMPREHENSIVE EMERGENCY MANAGEMENT SYSTEM	3 09/24/2001	ORO ltr dtd 09/24/2001 UT-Battelle ltr dtd 10/08/2001
<i>Adds Emergency Management S/RID Change Matrix (Reference 1). Tennessee Oversight Agreement, "Agreement Between the United States Department of Energy and the State of Tennessee," Att. B.2.</i>				
<b>OD #097</b> WSS Type 1	07/25/1996	OTHER INDUSTRIAL, RADIOLOGICAL, AND NON-RADIOLOGICAL HAZARD FACILITIES	17 10/29/2001	UT-Battelle e-mail to ORO dtd 10/29/2001
<i>Adds 10 CFR 820, "Procedural Rules for DOE Nuclear Activities."</i>				
<b>OD #098</b> ORO O 550, Chapter II	09/26/2001	FOREIGN TRAVEL AUTHORIZATION		ORO ltr dtd 10/09/2001 UT-Battelle ltr dtd 11/14/2001
<i>Adds ORO O 550, Chapter II.</i>				