WO 3616

Analytical Data Package Prepared For

0056265

Bechtel Hanford

Radiochemical Analysis By

STL Richland

2800 G.W. Way, Richland, Wa 99352, (509) 375-3131

Assigned Laboratory Code: STLRL

Data Package Contains 18 *Pages*

Report No.: 18218

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W03616	B01-107	B139D2	J1J190146-	EMFE71AA	9EMFE710	1292326

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SERVICES

STL Richland
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Richland, WA 99352-1613

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www.stl-inc.com

CERTIFICATE OF ANALYSIS

Bechtel Hanford, Inc.
3350 George Washington Way
Richland, WA 99352

November 18, 2001

Attention: Joan Kessner

SAF Number	:	B01-107
Date SDG Closed	:	November 2, 2001
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	W03616
Data Deliverable	:	45-Day

I. Introduction

On October 19, 2001, one water sample was received at STL Richland (STLR) for chemical analysis. Upon receipt, the sample was assigned the following laboratory ID number to correspond with the Bechtel Hanford, Inc. (BHI) specific ID:

STLR ID#	BHI ID#	MATRIX	DATE OF RECEIPT
EMFE7	B129D2	WATER	10/19/01

II. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analysis was: **Chemical Analysis**
Chromium Hex by EPA method 7196

III. Quality Control

The analytical results for each analysis performed under SDG W03616 include a minimum of one Laboratory Control Sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

Quality control sample results are reported in mg/L.

IV. Comments

Chemical Analyses

Chromium Hex by EPA method 7196:

The LCS, batch blank, sample, sample duplicate (B129D2) and sample matrix spike/matrix spike duplicate (B129D2) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Jackie Waddell

Jackie Waddell
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D57174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/vn), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) ***u_c - Combined Uncertainty.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, ***u_c the combined uncertainty.*** The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

STL Richland STLRL

Ordered by Client Sample ID, Batch No.

Date: 20-Nov-01

Report No. : 18218

SDG No: W03616

Client ID	Work Order Number	Parameter	Result	+-	Uncertainty	Qual	Units	Yield	MDC|MDA	RER
B139D2	EMFE71AA	HEXCHROME	2.00E-03	+-	0.0E+00 (2s)	U	mg/L	N/A	2.00E-03	
B139D2 DUP	EMFE71AE	HEXCHROME	2.00E-03	+-	0.0E+00 (2s)	U	mg/L	N/A	2.00E-03	

Number of Results: 2

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for, but the result is less than the Mdc/Mda/Total Uncert or gamma scan software did not identify the nuclide.

QC Results Summary
STL Richland STLRL
Ordered by QC Type, Batch No.

Date: 20-Nov-01

Report No. : 18218

SDG No.: W03616

QC Type	Work Order Number	Parameter	Result +- Uncertainty	Qual	Units	Yield	Recovery	Bias	MDC|MDA
MATRIX SPI	EMFE71AC	HEXCHROME	5.29E-01 +- 0.0E+00 (2s)		mg/L	N/A	100.57%	0.0	2.00E-03
MATRIX SPI	EMFE71AD	HEXCHROME	5.26E-01 +- 0.0E+00 (2s)		mg/L	N/A	100.00%	0.0	2.00E-03
BLANK QC	EMF2P1AA	HEXCHROME	0.00E+00 +- 0.0E+00 (2s)	U	mg/L	N/A			2.00E-03
LCS	EMF291AC	HEXCHROME	5.03E-01 +- 0.0E+00 (2s)		mg/L	N/A	100.60%	0.0	2.00E-03

Number of Results: 4

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 20-Nov-01

Lab Name:	STL Richland	**SDG:**	W03616	**Collection Date:**	10/19/01 8:15:00 AM
Lot-Sample No.:	J1J190146-	**Report No. :**	18218	**Received Date:**	10/19/01 9:15:00 AM
Client Sample ID:	B139D2	**COC No. :**		**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Analy Method, Primary Detector
Batch: 1292326	**Work Order:** EMFE71AA			**Report DB ID:** 9EMFE710								
HEXCHROME	2.00E-03	U		0.0E+00	2.00E-03	mg/L	N/A	1. N/A	10/19/01		100.0 ML	EPA7196

Number of Results: 1

Comments:

0008

STL Richland
rptSTLRchSample V3.77 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM II

Date: 20-Nov-01

DUPLICATE RESULTS

Lab Name:	STL Richland	SDG:	W03616	Collection Date:	10/19/01 8:15:00 AM
Lot-Sample No.:	J1J190146-	Report No. :	18218	Received Date:	10/19/01 9:15:00 AM
Client Sample ID:	B139D2 DUP	COC No. :		Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Analy Method, Primary Detector
Batch: 1292326	Work Order: EMFE71AE			Report DB ID: EMFE71ER			Orig Sa DB ID: 9EMFE710					
HEXCHROME	2.00E-03	U		0.0E+00	2.00E-03	mg/L	N/A	1.	10/19/01		100.0	EPA7196
	2.00E-03	RPD	0.0					N/A			ML	

Number of Results: 1

Comments:

0009

STL Richland

rptSTLRichDupV3.77 A97

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM II

Date: 20-Nov-01

BLANK RESULTS

Lab Name: STL Richland

SDG: W03616

Lot-Sample No.: J1J190000-

Report No. : 18218

Matrix: WATER

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC | MDA,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Analy Method, Primary Detector
Batch: 1292326	Work Order: EMF2P1AA			Report DB ID: EMF2P1AB								
HEXCHROME	0.00E+00	U		0.0E+00	2.00E-03	mg/L	N/A	0. N/A	10/19/01		100.0 ML	EPA7196

Number of Results: 1

Comments:

0010

STL Richland

rptSTLRichBlank V3.77 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM II

Date: 20-Nov-01

LCS RESULTS

Lab Name: STL Richland **SDG:** W03616

Lot-Sample No.: J1J190000- **Report No. :** 18218 **Matrix:** WATER

Parameter	Result	Qual	Count Error (2s)	Total Uncert(2 s)	MDC|MD	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 1292326	**Work Order:** EMF291AC			**Report DB ID:** EMF2P1CS									
HEXCHROME	5.03E-01			0.0E+00	2.00E-03	mg/L	N/A	5.00E-01		100.60%	10/19/01	100.0	EPA7196
							Rec Limits:	.	.	0.0		ML	

Number of Results: 1

Comments:

OC11

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

FORM II

Date: 20-Nov-01

MATRIX SPIKE RESULTS

Lab Name: STL Richland **SDG:** W03616

Lot-Sample No.: J1J190146- **Report No. :** 18218 **Matrix:** WATER

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MD	Rpt Unit, CRDL	Yield	Rec-overy	Exp-ected	Exp Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 1232326	Work Order: EMFE71AC			Report DB ID: EMFE71CW			Orig Sa DB ID: 9EMFE710						
HEXCHROME	5.29E-01			0.0E+00	2.00E-03	mg/L	N/A	100.57%	5.26E-01		10/19/01	100.0	EPA7196
	2.00E-03	RPD	2.0									ML	
Batch: 1292326	Work Order: EMFE71AD			Report DB ID: EMFE71DW			Orig Sa DB ID: 9EMFE710						
HEXCHROME	5.26E-01			0.0E+00	2.00E-03	mg/L	N/A	100.00%	5.26E-01		10/19/01	100.0	EPA7196
	2.00E-03	RPD	2.0									ML	

Number of Results: 2

Comments:

0012

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.

Quanterra

Richland Laboratory
Data Review Check List
METALS

Work Order Number(s):	FMFE7 BATCH # 1292326
Lab Sample Numbers or SDG:	W03616 LOT # JIJ190146
Method/Test/Parameter:	CR+6 IN WATER RICH WC 5003 R.4

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency wih required number of levels?	✓			✓
2. Correlation coefficient within QC limits?	✓			✓
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			✓
4. Initial calibration blank(ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			✓
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within QC limits?	✓			✓
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✓
C. Sample Analysis				
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?			✓	✓
2. Were all sample holding times met?	✓			✓
D. QC Samples				
1. All results for the preparation blank below limits?	✓			✓
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?	✓			✓
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			✓
4. Analytical spikes within QC limits where applicable?			✓	✓
5. ICP only: One serial dilution performed per SDG?			✓	✓
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	✓
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	✓

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
E. Other 1. Are all nonconformances included and noted?			✓	✓
2. Is the correct date and time of analysis shown?	✓			✓
3. Did the analyst sign and date the front page of the analytical run?	✓			✓
4. Correct methodology used?	✓			✓
5. Transcriptions checked?	✓			✓
6. Calculations checked at minimum frequency?	✓			✓
7. Units checked?	✓			✓

Comments on any "No" response:

Analyst: Martha Fabi Date: 10/19/01

Second-Level Review: Lori Ross Date: 10/22/01

Form No. CG-191, Rev. 0, 7/95

CHAIN OF CUSTODY

Q-27023

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		B01-107-01	Page 1 of 1
Collector Watson, DJ	Company Contact Weekes, D	Telephone No. 372-9130	Project Coordinator TRENT, SJ	Price Code 7N Air Quality ☐
Project Designation 200 Area RCRA Drilling Waste Designation-QC Sampling	Sampling Location 200 West		SAF No. B01-107	Data Turnaround 45 Days
Ice Chest No. ERC-99-050	Field Logbook No. EL-1551	COA JRCRA14114	Method of Shipment Government Vehicle	
Shipped To Severn Trent Incorporated	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

Preservation	Cool 4C Cool 4C										
Type of Container	P										
No. of Container(s)	1										
Volume	500mL										
SAMPLE ANALYSIS	7196_CR6: Hexavalent Chromium (1)										

SDG
W03616

J1J190146

Sample No.	Matrix *	Sample Date	Sample Time									
B139D2	WATER	10-19-01	0815	X								

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
~~DJ Watson/~~	~~10-19-01 0854~~	~~RET 2B 3728 8106~~	~~10-19-01 0854~~
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
DS Watson/	10-19-01 0900	R. Fahlberg/R. Fahlberg	0900 10-19-01
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
R. Fahlberg/R. Fahlberg	0915 10-19-01	[signature]	10-19-01 0915
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
		L100	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

Non Rad Sample, no activity report required.

Matrix *
S=Soil
SE=Sediment
SO=Solid
SJ=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (10/99)

~~5100~~

TRENT SERVICES

Sample Check-in List

Date/Time Received: 10/19 0915

Client: BHI SDG #: W03616 NA [ ] SAF #: B01-107 NA [ ]

Work Order Number: JN190146 Chain of Custody # B01-107-01

Shipping Container ID: ERC 99-050 Air Bill # na

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]

3. Chain of Custody record present? Yes [✓] No [ ]

4. Cooler temperature: 6° NA [ ] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6. Number of samples in shipping container: 1

7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]

8. Samples have:
   - ___ tape
   - ✓ custody seals
   - ___ hazard labels
   - ✓ appropriate samples labels

9. Samples are:
   - ✓ in good condition
   - ___ broken
   - ___ leaking
   - ___ have air bubbles (Only for samples requiring head space)

10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ]

11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13. Description of anomalies (include sample numbers): _____

Sample Custodian: D Heidelberg Date: 10-19-01

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/01, Rev. 4

0017

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 10/19/01
Time: 12:57:53

STL Richland

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: EA Hexavalent Chromium 6A)
QC BATCH #: 1292326
PREP DATE: 10/19/01
COMP DATE: 10/19/01
USER: ROSSR

INITIALS:
PREP _____
ANAL _____

DATA ENTRY:
INITIALS _____
DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
EMF2P-1-AA	J-1J190000-326-B	XX I 88 EA 5I		_____	INTRA-LAB BLANK
EMF2P-1-AC	J-1J190000-326-C	XX I 88 EA 5I		_____	INTRA-LAB CHECK
EMFE7-1-AA	J-1J190146-001	XX I 88 EA 5I	E	_____	B139D2
EMFE7-1-AD	J-1J190146-001-D	XX I 88 EA 5I	E	_____	B139D2
EMFE7-1-AC	J-1J190146-001-S	XX I 88 EA 5I	E	_____	B139D2
EMFE7-1-AE	J-1J190146-001-X	XX I 88 EA 5I	E	_____	B139D2 DUP
		Control Limits			
		(85-115)			
		(85-115)			
		(85-115)			