LOCKHEED MARTIN

Memorandum

Date: July 8, 1999

To: A. P. Keller

c: L. C. Adaline, J. R. Brewster, L. A. Headrick (RC), K. J. Foust

From: B. J. Owens, 9204-2, MS-8132, 574-2460 BJOwens

Subject: **RFSW-7813 - Lithium-7 Metal - (Y-12 WR 1464)**

Two cans of lithium-7 metal (1000 grams lithium wt.) are ready for shipment to:

FERMI Lab
Receiving Warehouse 2
Kirk Road & Wilson Street
Batavia, IL 60510

Reference PO 521215

Process # 3C19AJCL61

The results of analytical tests may be seen on page 2.

Please charge all costs to B3409200.

	Can 1	Can 2	Total
Gross Wt. (grams)	2,486	2,532	5,018
Tare Wt. (grams)	1,984	2,034	4,018
Net Wt. (grams)	502	498	1,000

BJO:prp

RFSW-7813 - Lithium-7 Metal (continued)

Laboratory Req. No.	636187*
Batch No.	2620-00-0056

Isotopic Analysis

Atom % Lithium-7	97.17
Wt. % Lithium-7	97.56

Chemical analysis

g/g Li (by difference)	.999050
ppm C	<200
%Cl	< .010
% Heavy Metals	< .010
ppm Ca (Metal Basis)	142
ppm K (m.b.)	89
ppm Na (m.b.)	267

Spectrographic Analysis, ppm: Metal Basis

Ag	<.5	In	<.1	Si	<2.0
Al	<.1	Ir	<.4	Sn	< .5
As	<.09	Mg	<.9	Sr	.2
Au	<.7	Mn	<.07	Ta	<3.0
Ba	.3	Mo	2.0	Th	< .3
Cd	<.5	Nb	<.1	Ti	< .08
Co	<.07	Ni	.1	Tl	< .4
Cr	<.08	Pb	2.0	V	< .06
Cs	<.2	Pd	<.5	W	< .8
Cu	.5	Rb	<.1	Y	< .1
Fe	.09	Rh	<.1	Zr	2.0
Ga	<.1	Ru	<.4	Lu	< .2
Ge	<.2	Sb	<.3	Tm	< .2
Hf	<.8	Sc	<.2		

*Representative Analysis