

**LIFE CYCLE ASSET MANAGEMENT  
PERFORMANCE MEASURES  
FY 2002 THIRD QUARTER  
RESULTS REPORT**

**FOR THE**

**OAK RIDGE NATIONAL  
LABORATORY**

**October 1, 2001 - June 30, 2002**

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UT-Battelle, LLC  
for the  
U.S. DEPARTMENT OF ENERGY  
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## Scoring Methodology for Life Cycle Asset Management (LCAM) Measures

The LCAM contract measures are composite indices of more detailed process level measures in each LCAM functional area contained in the *ORNL LCAM Implementation Plan*. The process level measures are evaluated by comparing the result of each measure to negotiated values for “meets expectations,” “exceeds expectations,” and “needs improvement.” The LCAM criteria, criteria weights, process level measures, and expectations necessary to calculate the contract measures can be found in the *ORNL LCAM Implementation Plan*. The process for calculating the contract measures from the process level measures and evaluating performance on each LCAM functional area is as follows:

Each process level measure was scored according to performance attained using the following point count scheme:

Exceeds expectations	10
Meets expectations	9
Needs improvement	8

The average score  $C_i$  for each criteria was calculated:

$$C_i = \frac{1}{N} \sum P_n$$

$C_i$  = Average score for Criteria I  
 $P_n$  = Scores of Performance Measures in Criteria I  
 $N$  = Number of Measures in Criteria I

The weighted average of criteria scores was calculated for each functional area:

$$I_x = \sum W_i C_i$$

$I_x$  = Index of Functional Area X  
 $W_i$  = Weight for Each Criteria I  
 $C_i$  = Average Criteria Score

The final rating for each functional area was determined by comparing the index value ( $I_x$ ) to the following table.:

Outstanding	=	97.5 - 100
Excellent	=	92.5 - 97.4
Good	=	90.0 - 92.4
Unsatisfactory	=	<90.0

**OS-A Life Cycle Asset Management: Project Management (FY 2002)  
Period Ending 6/30/02**

<b>Measure</b>	<b>Element Score Qtr 1</b>	<b>Element Score Cum-Qtr 2</b>	<b>Element Score Cum-Qtr 3</b>	<b>Element Score Cum-Qtr 4</b>	<b>Criteria Weight</b>	<b>Cumulative Criteria Score</b>	<b>Cumulative Final Score (Percent)</b>	
<b>PM1</b>	<b>10.00</b>	<b>10.00</b>	<b>10.00</b>		<b>0.30</b>	<b>3.0000</b>		
<b>PM1.1</b>	10.00	10.00	10.00					
<b>PM2</b>	<b>9.00</b>	<b>9.00</b>	<b>9.00</b>		<b>0.60</b>	<b>5.4000</b>		
<b>PM2.1.1</b>	10.00	10.00	10.00					
<b>PM2.1.2</b>	9.00	9.00	9.00					
<b>PM2.2.1</b>	8.00	8.00	8.00					
<b>PM2.2.2</b>	9.00	9.00	9.00					
<b>PM3</b>	<b>10.00</b>	<b>10.00</b>	<b>10.00</b>		<b>0.10</b>	<b>1.0000</b>		
<b>PM 3.1</b>	10.00	10.00	10.00					
<b>Cum Total</b>	<b>94.00%</b>	<b>94.00%</b>	<b>94.00%</b>		<b>1.00</b>	<b>9.4000</b>		<b>94.00%</b>

**RATING: EXCELLENT**

**ORNL Business Management Review Self-Assessment for FY 2002**

**ORNL Engineering and Construction Management  
Period Ending 6/30/02**

**Performance Objective**

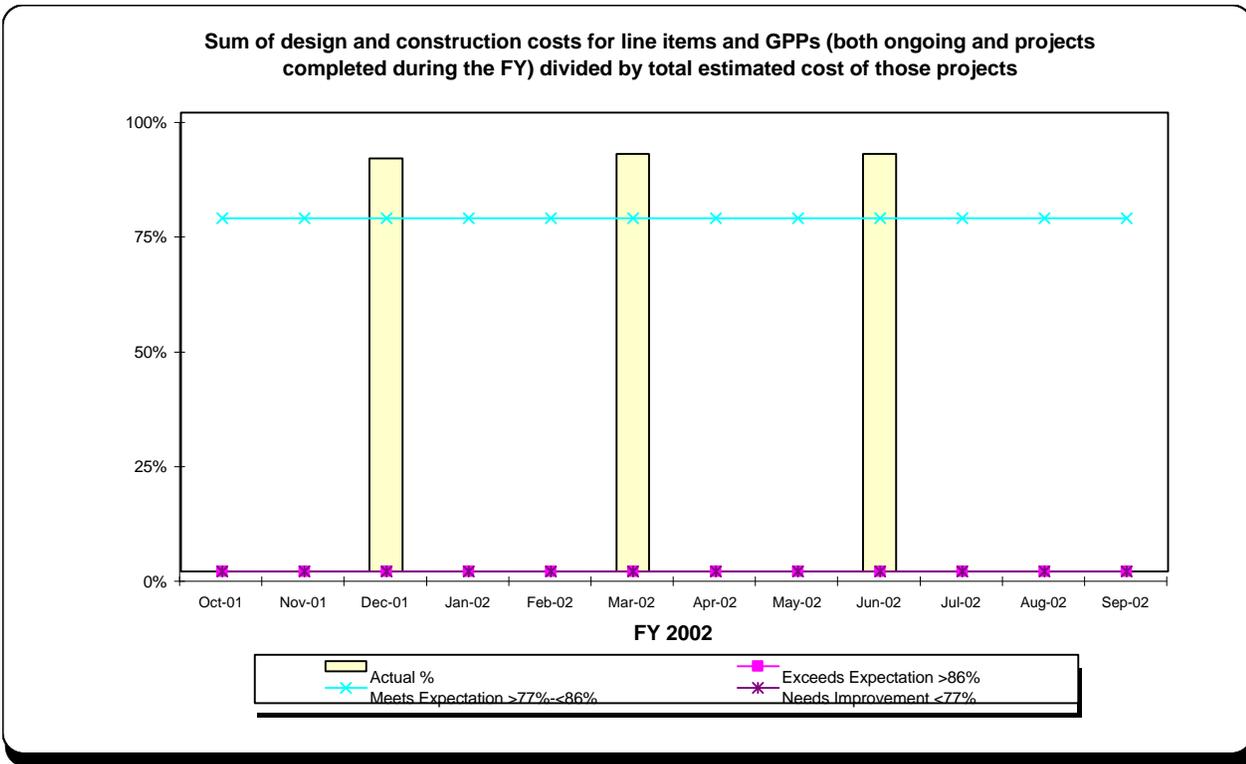
1. Demonstrate efficient use of capital funds for Engineering design and construction activities.

**Performance Measure**

1.1 Sum of design and construction costs for line items and GPPs<sup>1</sup> (both ongoing and projects completed during the FY) divided by total estimated cost of those projects. (Note: Design and construction costs are architect/engineer and construction contract amounts).<sup>2</sup>

**Performance Expectation 1.1.1**

**FY 2002**  
 Exceeds:  $\geq 86\%$   
 Meets:  $\geq 77\% - < 86\%$   
 Needs Improvement:  $< 77\%$   
 Actual: 91%



1.1 Demonstrate savings-D&C %/FY-96 D&C %	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
Exceeds Expectation >86%	>86%	>86%	>86%	>86%	>86%	>86%	>86%	>86%	>86%	>86%	>86%	>86%
Meets Expectation >77%-<86%	77%	77%	77%	77%	77%	77%	77%	77%	77%	77%	77%	77%
Needs Improvement <77%	<77%	<77%	<77%	<77%	<77%	<77%	<77%	<77%	<77%	<77%	<77%	<77%
Actual %			90%			91%			91%			

- List only GPPs that have a detailed cost estimate; use current working estimate costs if different from baseline costs.
- Design cost is Architect/Engineer (A/E) or "in-house" Title I and II. Construction costs are Fixed Priced Sub-Contract (FPSC)/direct hire (either Construction Manager or P&E) directly related to construction and materials procurement costs. For projects completed during FY, use final or estimated final costs.

Baseline TEC	Approved Fin Plan	Current TEC	Estimated Design&Const Cost	% of TEC
144,865	121,292	144,166	131,458	91%

Title	Projects in Performance Measure			Estimated		% of
	Baseline TEC	Approved Fin Plan	Forecast TEC	Design&Const Cost	TEC	
Fire Protection Upgrade	1,275	1,307	1,307	1,011	77%	
Water Reservoir No. 1	1,700	1,426	1,426	1,258	88%	
HFIR Cooling Tower	4,800	4,050	4,050	3,322	82%	
3500 Nano Science	1,500	1,800	1,800	1,500	83%	
Advance Materials Characterization Laboratory	4,800	2,260	4,800	4,000	83%	
Bethel Valley Road Access Controls	2,875	2,875	2,875	2,650	92%	
<b>Sub-Total GPPs</b>	<b>16,950</b>	<b>13,718</b>	<b>16,258</b>	<b>13,741</b>	<b>85%</b>	
Replace Det. Roofing	14,995	14,995	14,988	14,026	94%	
Electrical Systems Upgrade	5,900	5,900	5,900	5,185	88%	
Upgrade HVAC	7,100	3,500	7,100	5,851	82%	
Fire Protection Systems Upgrade	5,920	584	5,920	4,895	83%	
Laboratory for Comparative and Functional Genomics	13,900	2,495	13,900	13,320	96%	
Research Support Center	16,100	16,100	16,100	14,240	88%	
Center for Nanophase Materials Science	64,000	64,000	64,000	60,200	94%	
<b>Sub-Total LIs</b>	<b>127,915</b>	<b>107,574</b>	<b>127,908</b>	<b>117,717</b>	<b>92%</b>	
<b>Total</b>	<b>144,865</b>	<b>121,292</b>	<b>144,166</b>	<b>131,458</b>	<b>91%</b>	

**ORNL Business Management Review Self-Assessment for FY 2002**

**ORNL Engineering and Construction Management  
Period Ending 6/30/02**

**Performance Objective**

2. Approved technical, cost, and schedule baselines<sup>3</sup> are met without significant changes.

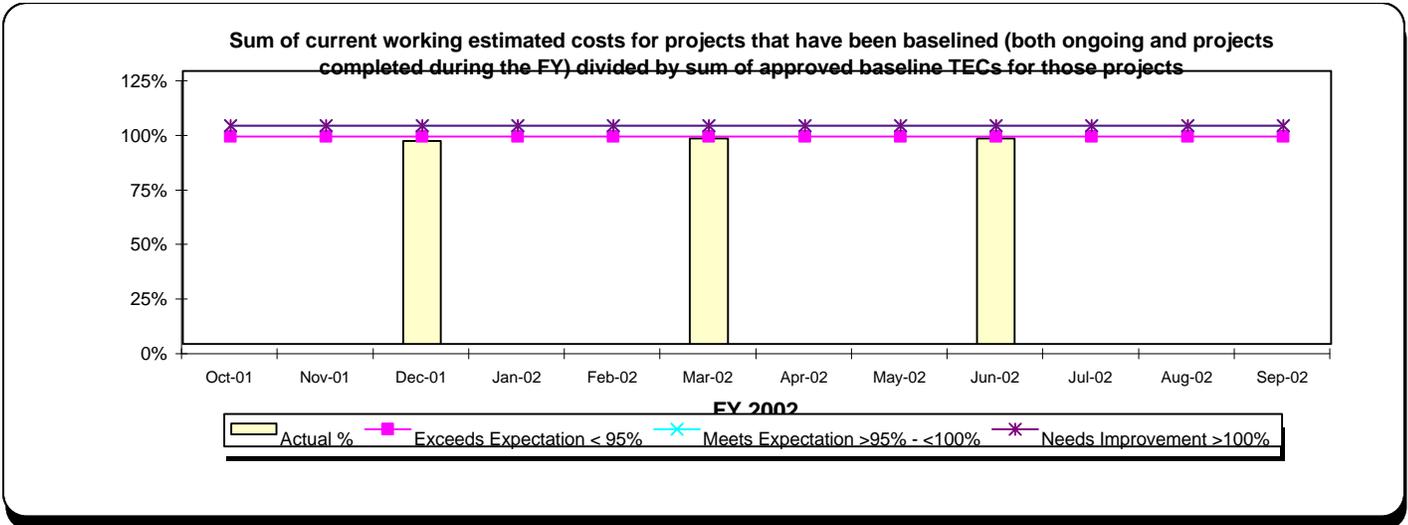
**Performance Measure**

2.1 Sum of current working estimated costs for projects that have been baselined (both ongoing and projects completed during the FY) divided by sum of approved baseline TECs for those projects. (Separate measure for GPPs and line items.)

**Performance Expectation 2.1.1**

**FY 2002**

Exceeds: ≤ 95%  
Meets: >95% - ≤100%  
Needs Improvement: >100%  
Actual: 94%



2.1.1 Est/Act CWEs /Baseline TECs	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
Exceeds Expectation ≤ 95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%
Meets Expectation >95% - ≤100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Needs Improvement >100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Actual %			93%			94%			94%			

3. Approved baselines are defined in the Preliminary Proposal (updated after Title I) for GPPs and upon approval of CD-2 (Title I) for Line Items. After completion of Title I, baselines are adjusted through Project Change Orders (PCOs) Baseline Change Proposals (BCPs).

**Projects in Performance Measure**

Title	Baseline		% of TEC
	TEC	CWEs	
Fire Protection Upgrade	1,275	1,307	103%
Water Reservoir No. 1	1,700	1,426	84%
HFIR Cooling Tower	4,800	4,050	84%
3500 Nano Science	1,800	1,800	100%
Advance Materials Characterization Laboratory	4,800	4,800	100%
Bethel Valley Road Access Controls	2,875	2,875	100%
<b>Total</b>	<b>17,250</b>	<b>16,258</b>	<b>94%</b>

**ORNL Business Management Review Self-Assessment for FY 2002**

**ORNL Engineering and Construction Management  
Period Ending 6/30/02**

**Performance Objective**

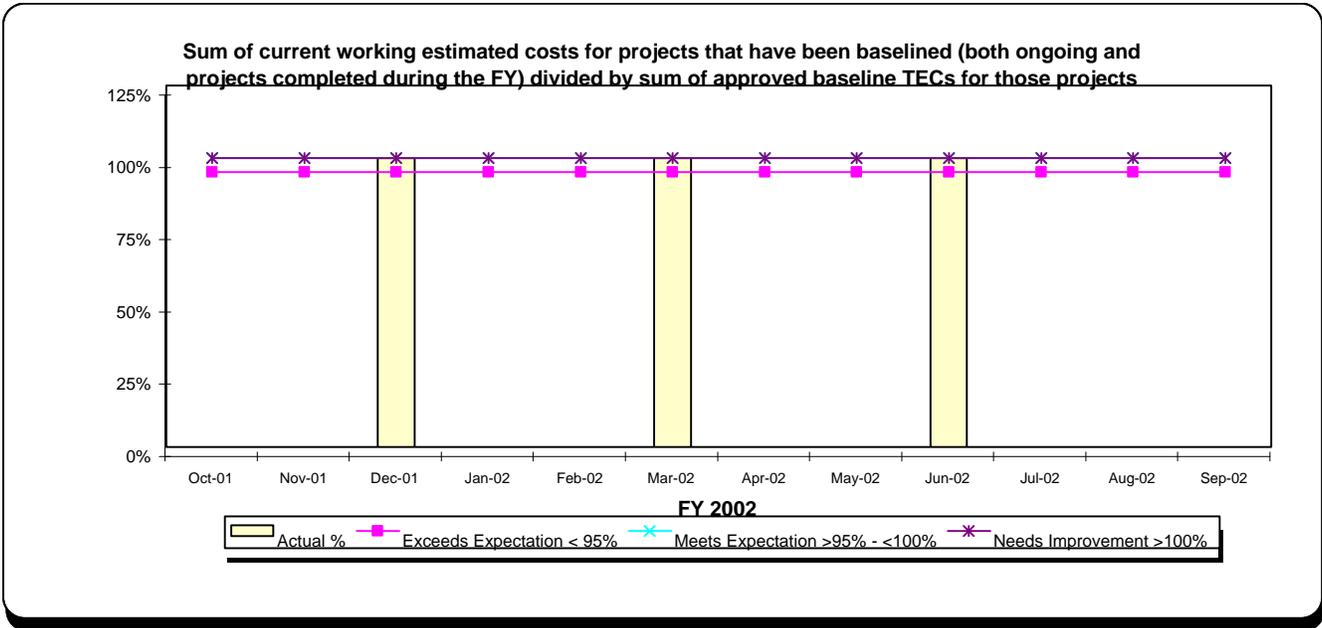
2. Approved technical, cost, and schedule baselines<sup>3</sup> are met without significant changes.

**Performance Measure**

2.1 Sum of current working estimated costs for projects that have been baselined (both ongoing and projects completed during the FY) divided by sum of approved baseline TECs for those projects. (Separate measure for GPPs and line items.)

**Performance Expectation 2.1.2**

**FY 2002**  
 Exceeds: ≤ 95%  
 Meets: >95% - ≤100%  
 Needs Improvement: >100%  
 Actual: 100%



2.1.2 Est/Act CWEs/Baseline TECs	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
Exceeds Expectation ≤ 95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%
Meets Expectation >95% - ≤100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Needs Improvement >100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Actual %			100%			100%			100%			

3. Approved baselines are defined in the Preliminary Proposal (updated after Title I) for GPPs and upon approval of CD-2 (Title I) for Line Items. After completion of Title I, baselines are adjusted through Project Change Orders (PCOs) Baseline Change Proposals (BCPs).

**Projects in Performance Measure**

Title	Baseline TEC	CWEs	% of TEC
Electrical Systems Upgrade	5,900	5,900	100%
Upgrade HVAC	7,100	7,100	100%
Fire Protection Systems Upgrade	5,920	5,920	100%
Laboratory for Comparative and Functional Genomics	13,900	13,900	100%
Research Support Center	16,100	16,100	100%
Center for Nanophase Materials Science	64,000	64,000	100%
<b>Total</b>	<b>112,920</b>	<b>112,920</b>	<b>100%</b>

**ORNL Business Management Review Self-Assessment for FY 2002**

**ORNL Engineering and Construction Management  
Period Ending 6/30/02**

**Performance Objective**

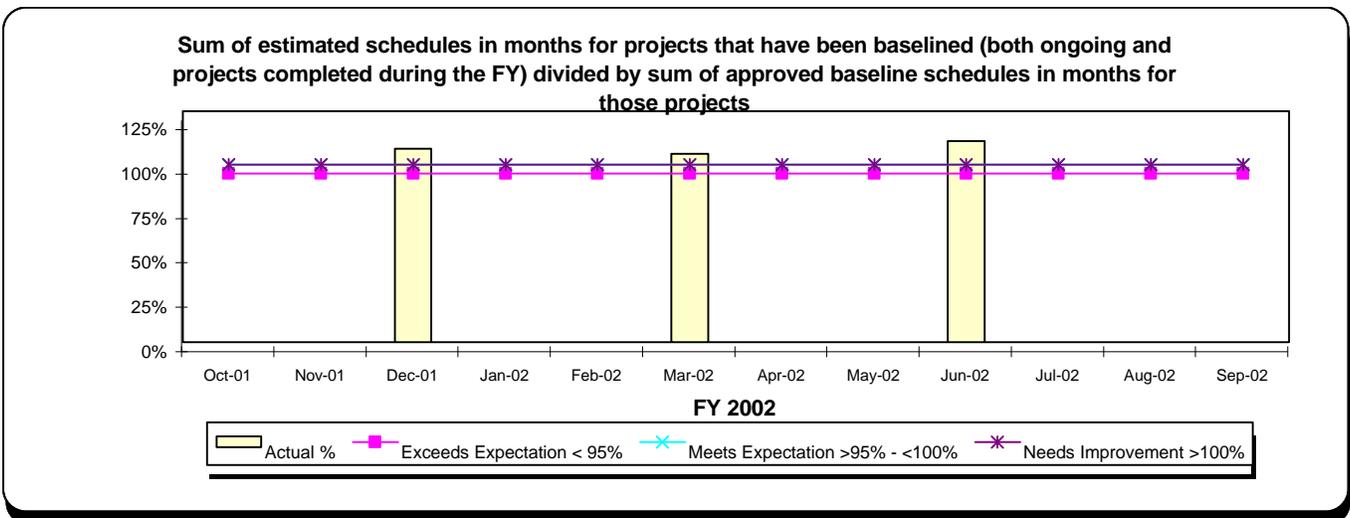
2. Approved technical, cost, and schedule baselines<sup>3</sup> are met without significant changes.

**Performance Measure**

2.2. Sum of estimated schedules in months for projects that have been baselined (both ongoing and projects completed during the FY) divided by sum of approved baseline schedules in months for those projects. (Separate measures for GPPs and line items.)

**Performance Expectation 2.2.1**

**FY 2002**  
 Exceeds: ≤ 95%  
 Meets: >95% - ≤100%  
 Needs Improvement: >100%  
 Actual: 113%



2.2.1 Est/Act Duration/Baseline Duration	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
Exceeds Expectation ≤ 95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%
Meets Expectation >95% - ≤100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Needs Improvement >100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Actual %			109%			106%			113%			

3. Approved baselines are defined in the Preliminary Proposal (updated after Title I) for GPPs and upon approval of CD-2 (Title I) for Line Items. After completion of Title I, baselines are adjusted through Project Change Orders (PCOs) Baseline Change Proposals (BCPs).

**Projects in Performance Measure**

Title	Baseline Schedule Duration	Estimated/Actual Schedule Duration	% of Schedule
Fire Protection Upgrade	35 months	37 months	106%
Water Reservoir No. 1	12 months	16 months	133%
HFIR Cooling Tower	9 months	10 months	111%
3500 Nano Science	35 months	35 months	100%
Advance Materials Characterization Laboratory	22 months	29 months	132%
Bethel Valley Road Access Controls	7 months	8 months	114%
<b>Total</b>	<b>120 months</b>	<b>135 months</b>	<b>113%</b>

**ORNL Business Management Review Self-Assessment for FY 2002**

**ORNL Engineering and Construction Management  
Period Ending 6/30/02**

**Performance Objective**

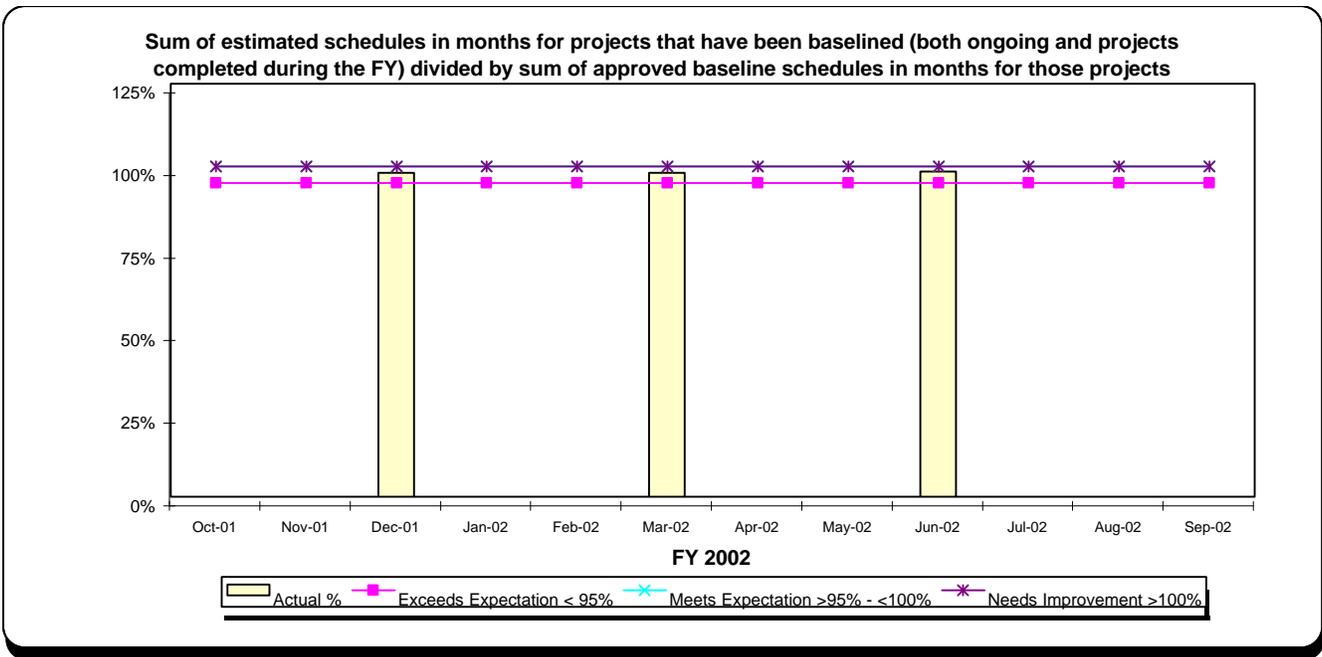
2. Approved technical, cost, and schedule baselines<sup>3</sup> are met without significant changes.

**Performance Measure**

2.2. Sum of estimated schedules in months for projects that have been baselined (both ongoing and projects completed during the FY) divided by sum of approved baseline schedules in months for those projects. (Separate measures for GPPs and line items.)

**Performance Expectation 2.2.2**

**FY 2002**  
 Exceeds:  $\leq 95\%$   
 Meets:  $>95\% - \leq 100\%$   
 Needs Improvement:  $>100\%$   
 Actual: 98%



2.2.2 Est/Act Duration/Baseline Duration	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
Exceeds Expectation $\leq 95\%$	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%
Meets Expectation $>95\% - \leq 100\%$	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Needs Improvement $>100\%$	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Actual %			98%			98%			98%			

3. Approved baselines are defined in the Preliminary Proposal (updated after Title I) for GPPs and upon approval of CD-2 (Title I) for Line Items. After completion of Title I, baselines are adjusted through Project Change Orders (PCOs) Baseline Change Proposals (BCPs).

**Projects in Performance Measure**

Title	Baseline Schedule	Forecast Duration	% of Schedule
Electrical Systems Upgrade	30 mo.	26 mo.	87%
Upgrade HVAC	42 mo.	42 mo.	100%
Fire Protection Systems Upgrade	48 mo.	48 mo.	100%
Laboratory for Comparative and Functional Genomics	42 mo.	42 mo.	100%
Research Support Center	39 mo.	39 mo.	100%
Center for Nanophase Materials Science	57 mo.	57 mo.	100%
<b>Total</b>	<b>258 mo.</b>	<b>254 mo.</b>	<b>98%</b>



**OS-B Life Cycle Asset Management: Operations & Maintenance Management (FY 2002)  
Period Ending 6/30/02**

Measure	Element Score Qtr 1	Element Score Cum-Qtr 2	Element Score Cum-Qtr 3	Element Score Cum-Qtr 4	Cumulative Criteria Score	Cumulative Criteria Score	Cumulative Final Score (Percent)
<b>OM1</b>	<b>10.00</b>	<b>10.00</b>	<b>10.00</b>		<b>0.15</b>	<b>1.5000</b>	
OM1.1	10.00	10.00	10.00				
<b>OM2</b>	<b>9.67</b>	<b>9.67</b>	<b>9.67</b>		<b>0.35</b>	<b>3.3833</b>	
OM2.1	9.00	9.00	9.00				
OM2.2	10.00	10.00	10.00				
OM2.3	10.00	10.00	10.00				
<b>OM3</b>	<b>9.00</b>	<b>9.00</b>	<b>9.17</b>		<b>0.15</b>	<b>1.3750</b>	
OM3.1	10.00	10.00	10.00				
OM3.2	10.00	10.00	10.00				
OM3.3	9.00	9.00	9.00				
OM3.4	8.00	8.00	9.00				
OM3.5	8.00	8.00	8.00				
OM3.6	9.00	9.00	9.00				
<b>OM4</b>	<b>10.00</b>	<b>9.60</b>	<b>9.60</b>		<b>0.15</b>	<b>1.4400</b>	
OM4.1	10.00	10.00	10.00				
OM4.2	10.00	10.00	10.00				
OM4.3	10.00	10.00	10.00				
OM4.4	10.00	8.00	8.00				
OM4.5	10.00	10.00	10.00				
<b>OM5</b>	<b>10.00</b>	<b>9.50</b>	<b>9.50</b>		<b>0.15</b>	<b>1.4250</b>	
OM5.1	10.00	9.00	9.00				
OM5.2	10.00	10.00	10.00				
OM5.3*	NA	NA	NA				
<b>OM6</b>	<b>9.67</b>	<b>10.00</b>	<b>10.00</b>		<b>0.05</b>	<b>0.5000</b>	
OM6.1	10.00	10.00	10.00				
OM6.2	10.00	10.00	10.00				
OM6.3	9.00	10.00	10.00				
<b>Cum Total</b>	<b>97.18%</b>	<b>95.98%</b>	<b>96.23%</b>		<b>1.00</b>	<b>9.6233</b>	<b>96.23%</b>

**RATING: EXCELLENT**

\*OM 5.3 has no expectation beyond reporting.

**ORNL Operations and Maintenance (O&M)  
Period Ending 6/30/02**

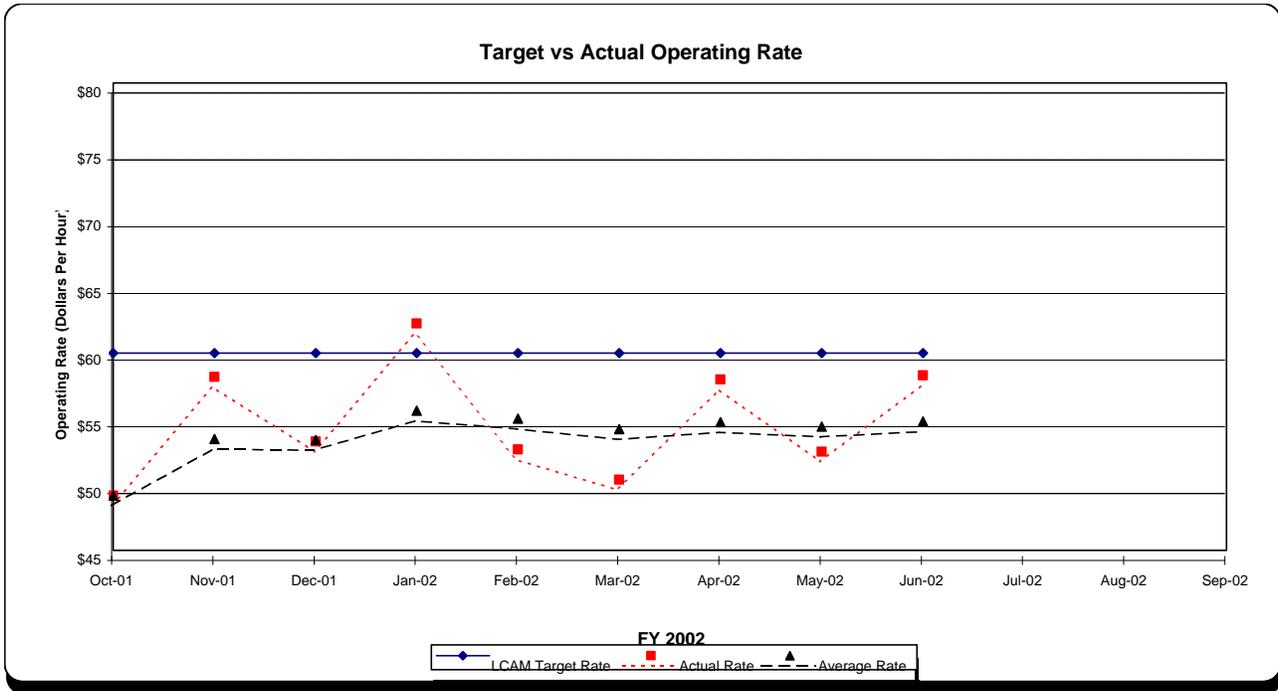
Performance Objective

OM-1. The maintenance rate is effectively managed and maintained.

Performance Measure

1.1 The general maintenance rate expressed as a percentage of the target rate for the fiscal year.

Performance Expectation            Exceeds:                    <98%  
    Meets:                      98% - 102%  
    Needs Improvement:    >102%  
 Performance Measure                    **Actual to Date                    91.4%**



Measure 1.1	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
<b>LCAM Target Rate</b>	\$59.77	\$59.77	\$59.77	\$59.77	\$59.77	\$59.77	\$59.77	\$59.77	\$59.77			
<b>Actual Rate</b>	\$49.11	\$57.99	\$53.15	\$61.99	\$52.54	\$50.28	\$57.81	\$52.38	\$58.11			
<b>Average Rate</b>	\$49.11	\$53.34	\$53.28	\$55.47	\$54.87	\$54.08	\$54.60	\$54.26	\$54.65			
Total Org Burden Cost	\$1,304,400	\$1,533,203	\$1,606,932	\$1,578,212	\$1,583,268	\$1,373,072	\$1,583,799	\$1,670,753	\$1,432,864			
Total Org Burden hrs	75,934	69,446	76,945	75,912	77,186	78,066	72,427	95,054	68,350			
Org Burden Rate	\$17.18	\$22.08	\$20.88	\$20.79	\$20.51	\$17.59	\$21.87	\$17.58	\$20.96			
Average Wage Pool Cost	\$2,791,606	\$2,844,470	\$2,822,334	\$3,509,752	\$2,787,817	\$2,863,870	\$2,991,916	\$3,721,056	\$2,953,368			
Average Wage Pool hours	87,433	79,204	87,476	85,187	87,037	87,606	83,253	106,908	79,510			
Average Wage Pool Rate	\$31.93	\$35.91	\$32.26	\$41.20	\$32.03	\$32.69	\$35.94	\$34.81	\$37.14			











**ORNL Operations and Maintenance (O&M)  
Period Ending 6/30/02**

Performance Objective

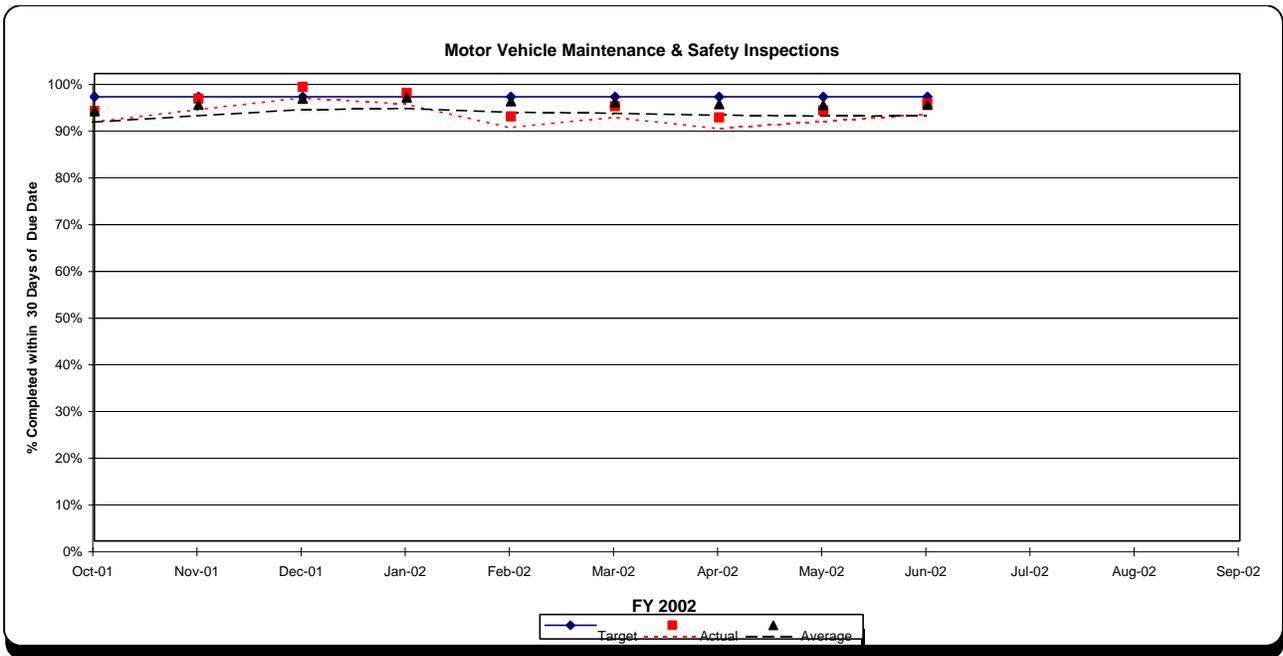
OM-3 Motor vehicle and heavy equipment maintenance is timely and effective.

Performance Measure

3.3 Percentage of motor vehicle maintenance and safety inspections completed and documented within 30 days of the due date.

Performance Expectation

Exceeds: >95%  
Meets: 90%-95%  
Needs Improvement: <90%  
**Actual to Date 93.3%**



Measure 3.3	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
<b>Target</b>	95%	95%	95%	95%	95%	95%	95%	95%	95%			
<b>Actual</b>	92.0%	94.7%	97.1%	95.8%	90.8%	93.0%	90.6%	92.1%	93.6%			
<b>Average</b>	92.0%	93.3%	94.6%	94.9%	94.1%	93.9%	93.4%	93.3%	93.3%			
Number of Vehicles	561	561	561	554	554	556	543	543	533			
Overdue Veh Maint & Safety Inspections	45	30	16	23	51	39	51	43	34			

**ORNL Operations and Maintenance (O&M)  
Period Ending 6/30/02**

Performance Objective

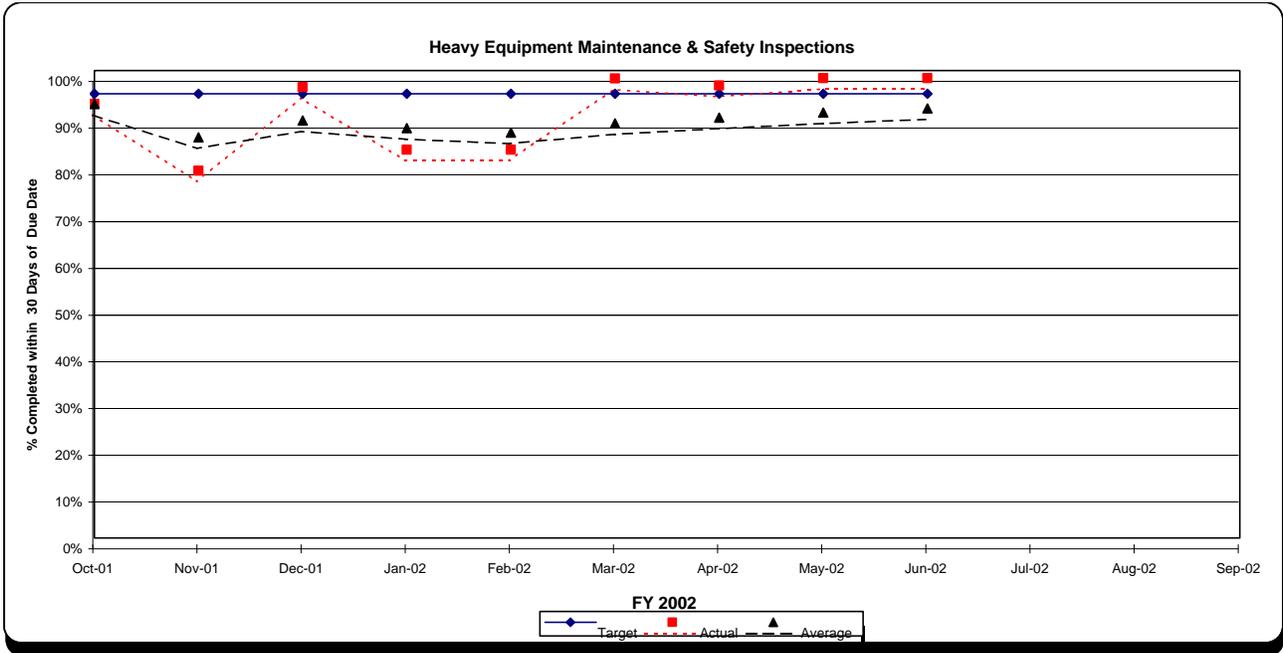
OM-3 Motor vehicle and heavy equipment maintenance is timely and effective.

Performance Measure

3.4 Percentage of heavy equipment maintenance and safety inspections completed and documented within 30 days of the due date.

Performance Expectation

Exceeds: >95%  
Meets: 90%-95%  
Needs Improvement: <90%  
**Actual to Date 91.9%**



Measure 3.4	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
<b>Target</b>	95%	95%	95%	95%	95%	95%	95%	95%	95%			
<b>Actual</b>	92.9%	78.6%	96.4%	83.1%	83.1%	98.3%	96.8%	98.4%	98.4%			
<b>Average</b>	92.9%	85.7%	89.3%	87.7%	86.7%	88.7%	89.9%	91.0%	91.9%			
Number of Vehicles	56	56	56	59	59	59	62	62	62			
Overdue Veh Maint & Safety Inspections	4	12	2	10	10	1	2	1	1			





**ORNL Operations and Maintenance (O&M)  
Period Ending 6/30/02**

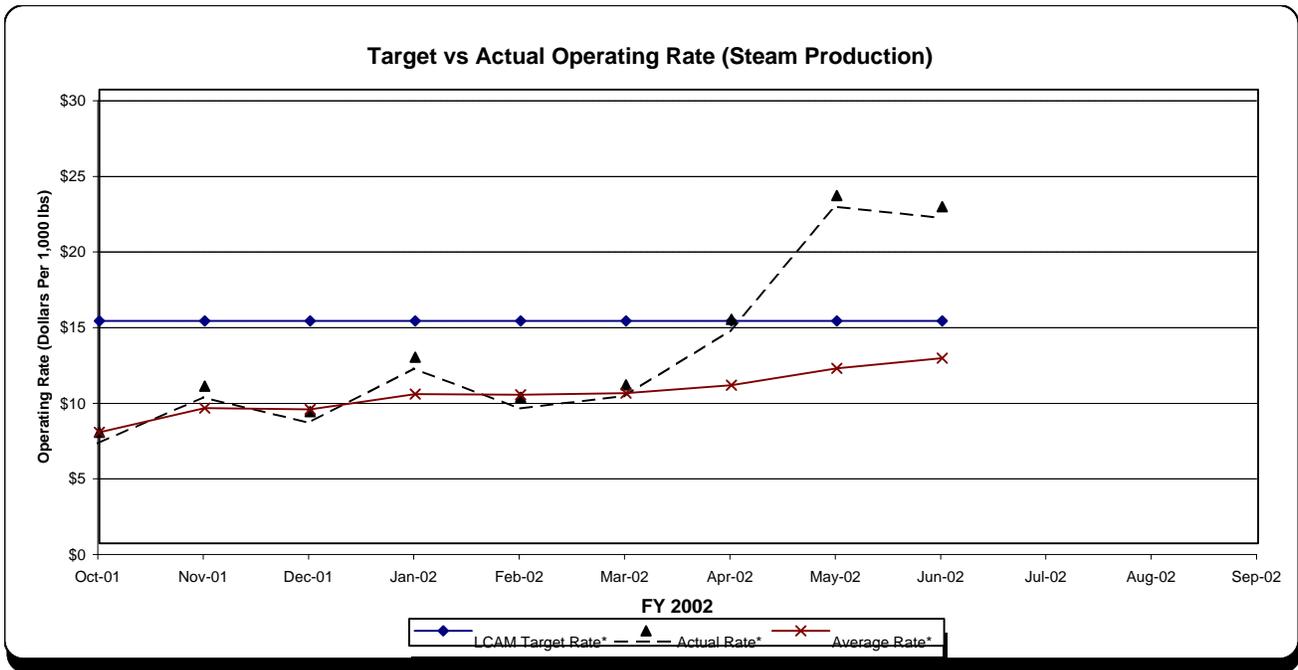
Performance Objective

OM-4 Utilities are effectively managed and utilized.

Performance Measure

4.1 The actual rate for providing steam to the Laboratory expressed as a percentage of the LCAM target rate for the fiscal year.

Performance Expectation	Exceeds:	<95%
	Meets:	95% - 105%
	Needs Improvement:	>105%
Performance Measure	<b>Actual to Date**</b>	<b>83.3%</b>



Measure 4.1	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
LCAM Target Rate*	\$14.70	\$14.70	\$14.70	\$14.70	\$14.70	\$14.70	\$14.70	\$14.70	\$14.70			
Actual Rate*	\$7.35	\$10.40	\$8.71	\$12.31	\$9.66	\$10.48	\$14.81	\$22.98	\$22.26			
Average Rate*	\$7.35	\$8.93	\$8.85	\$9.87	\$9.83	\$9.94	\$10.46	\$11.57	\$12.25			
Total Operating Cost	\$404,564	\$617,739	\$601,882	\$946,897	\$693,606	\$714,055	\$709,757	\$1,004,081	\$743,843			
Total Production (lbs)	55,078,000	59,383,000	69,088,000	76,923,000	71,768,000	68,143,000	47,936,000	43,686,000	33,413,000			

\* - Rates are in cost per 1,000 lbs

**ORNL Operations and Maintenance (O&M)  
Period Ending 6/30/02**

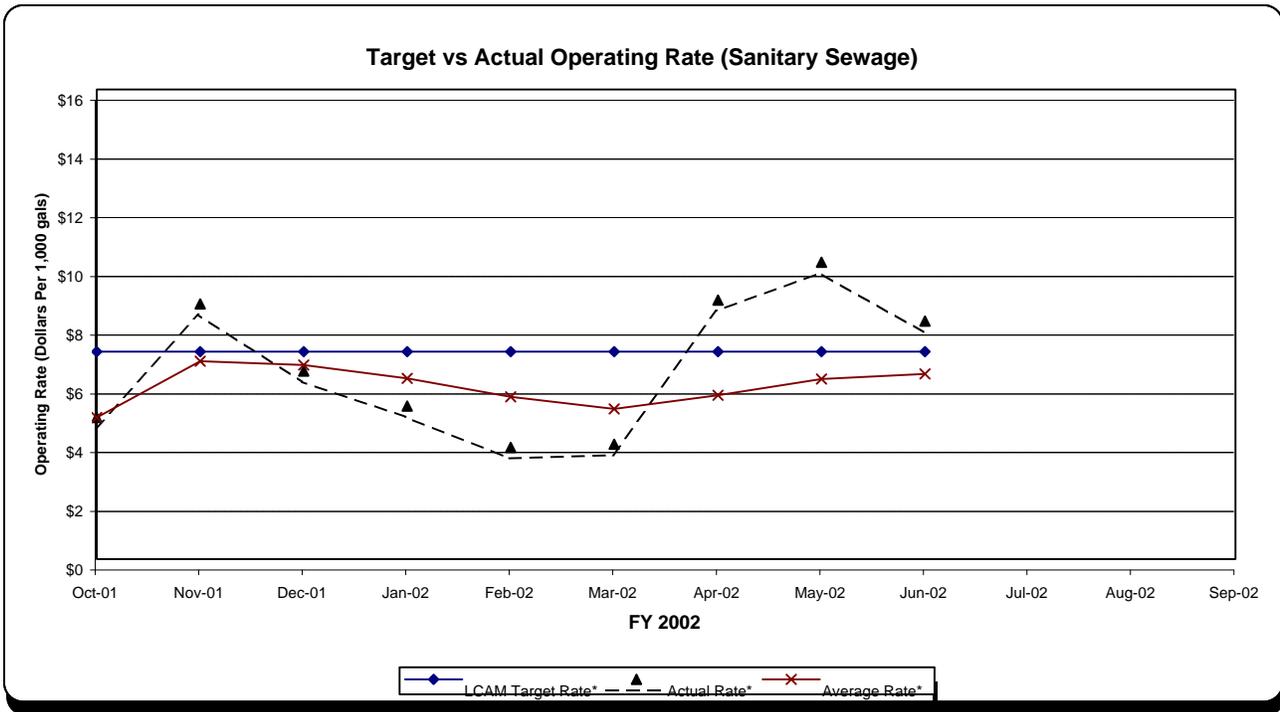
Performance Objective

OM-4 Utilities are effectively managed and utilized.

Performance Measure

4.2 The actual rate for treating sanitary sewage for the Laboratory expressed as a percentage of the LCAM target rate for the fiscal year.

Performance Expectation	Exceeds:	<95%
	Meets:	95% - 105%
	Needs Improvement:	>105%
Performance Measure	<b>Actual to Date**</b>	<b>89.2%</b>



Measure 4.2	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
LCAM Target Rate*	\$7.07	\$7.07	\$7.07	\$7.07	\$7.07	\$7.07	\$7.07	\$7.07	\$7.07			
Actual Rate*	\$4.82	\$8.69	\$6.41	\$5.21	\$3.80	\$3.92	\$8.82	\$10.12	\$8.11			
Average Rate*	\$4.82	\$6.75	\$6.62	\$6.15	\$5.53	\$5.11	\$5.59	\$6.14	\$6.31			
Total Operating Cost	\$19,287	\$34,424	\$31,997	\$33,258	\$26,561	\$35,863	\$45,589	\$56,820	\$35,424			
Total Treatment (gals)	4,002,650	3,959,190	4,990,491	6,381,930	6,983,760	9,154,150	5,168,280	5,617,050	4,368,270			

\* - Rates are in cost per 1,000 gallons

**ORNL Operations and Maintenance (O&M)  
Period Ending 6/30/02**

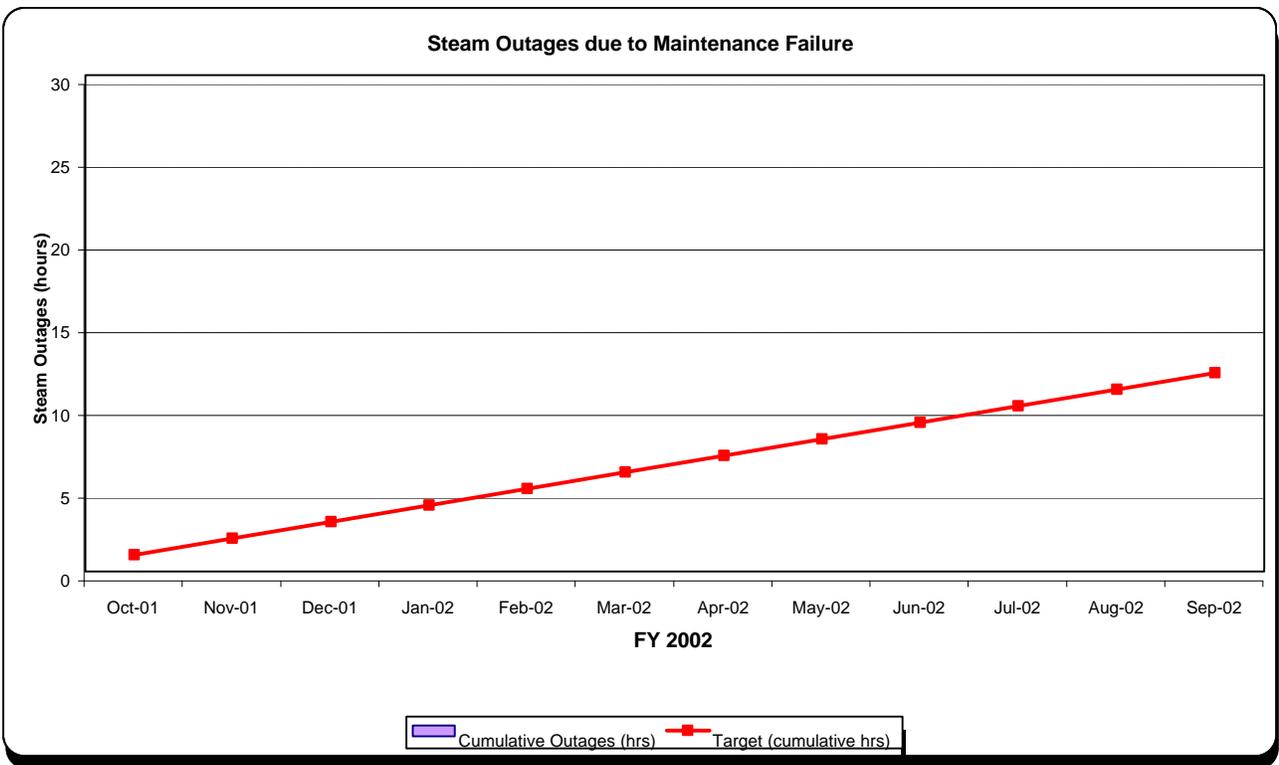
Performance Objective

OM-4 Utilities are effectively managed and utilized.

Performance Measure

4.3 The cumulative hours of all steam outages caused by a lack of adequate maintenance on the system.

Performance Expectation	Exceeds:	<12 hrs
	Meets:	12-24 hrs
	Needs Improvement:	>24 hrs
Performance Measure	<b>Actual to Date</b>	<b>0 hrs</b>



Measure 4.3	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
Monthly Outages (hrs)	0	0	0	0	0	0	0	0	0			
Cumulative Outages (hrs)	0	0	0	0	0	0	0	0	0			
Target (cumulative hrs)	1	2	3	4	5	6	7	8	9	10	11	12

**ORNL Operations and Maintenance (O&M)  
Period Ending 6/30/02**

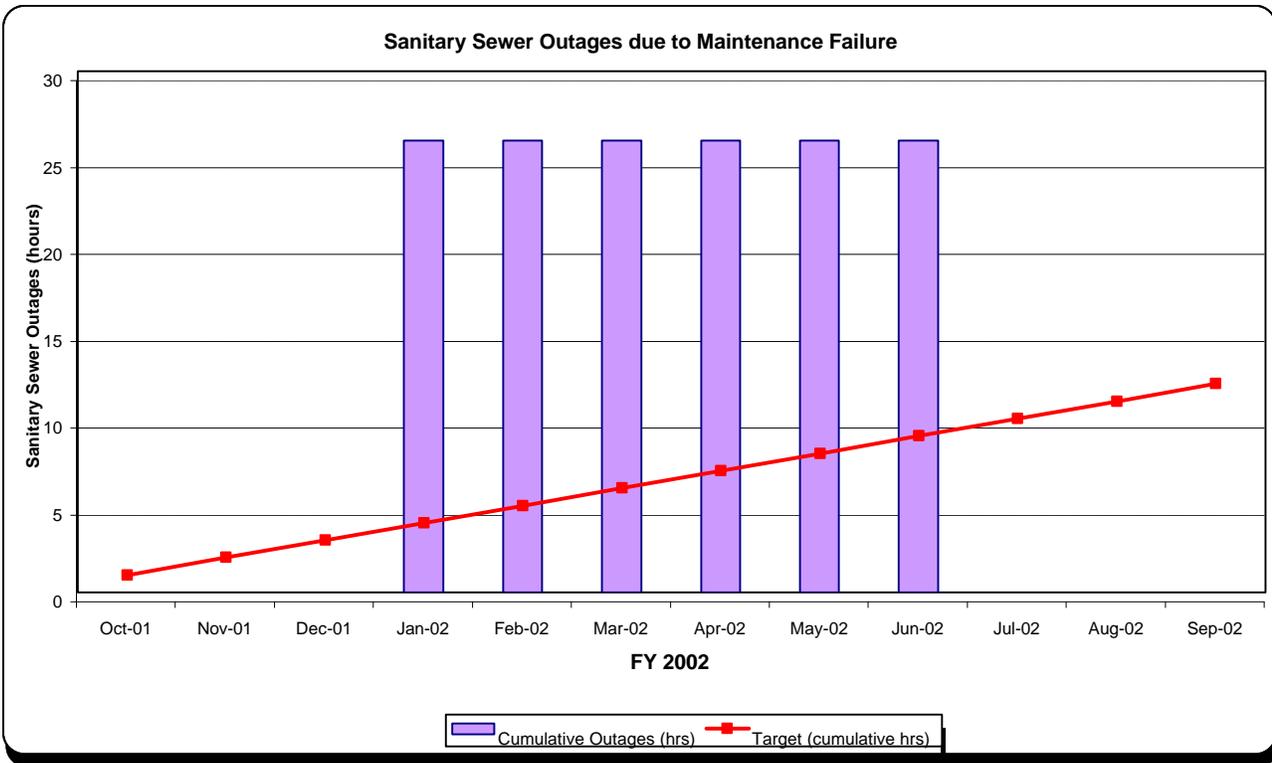
Performance Objective

OM-4 Utilities are effectively managed and utilized.

Performance Measure

4.4 The cumulative hours of all occasions a lack of adequate maintenance has caused the sanitary sewer service to not be provided to customer facilities.

Performance Expectation	Exceeds:	<12hrs
	Meets:	12-24 hrs
	Needs Improvement:	>24 hrs
Performance Measure	<b>Actual to Date</b>	<b>26 hrs</b>



Measure 4.4	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
Monthly Outages (hrs)	0	0	0	26	0	0	0	0	0			
<b>Cumulative Outages (hrs)</b>	0	0	0	26	26	26	26	26	26			
<b>Target (cumulative hrs)</b>	1	2	3	4	5	6	7	8	9	10	11	12

**ORNL Operations and Maintenance (O&M)  
Period Ending 6/30/02**

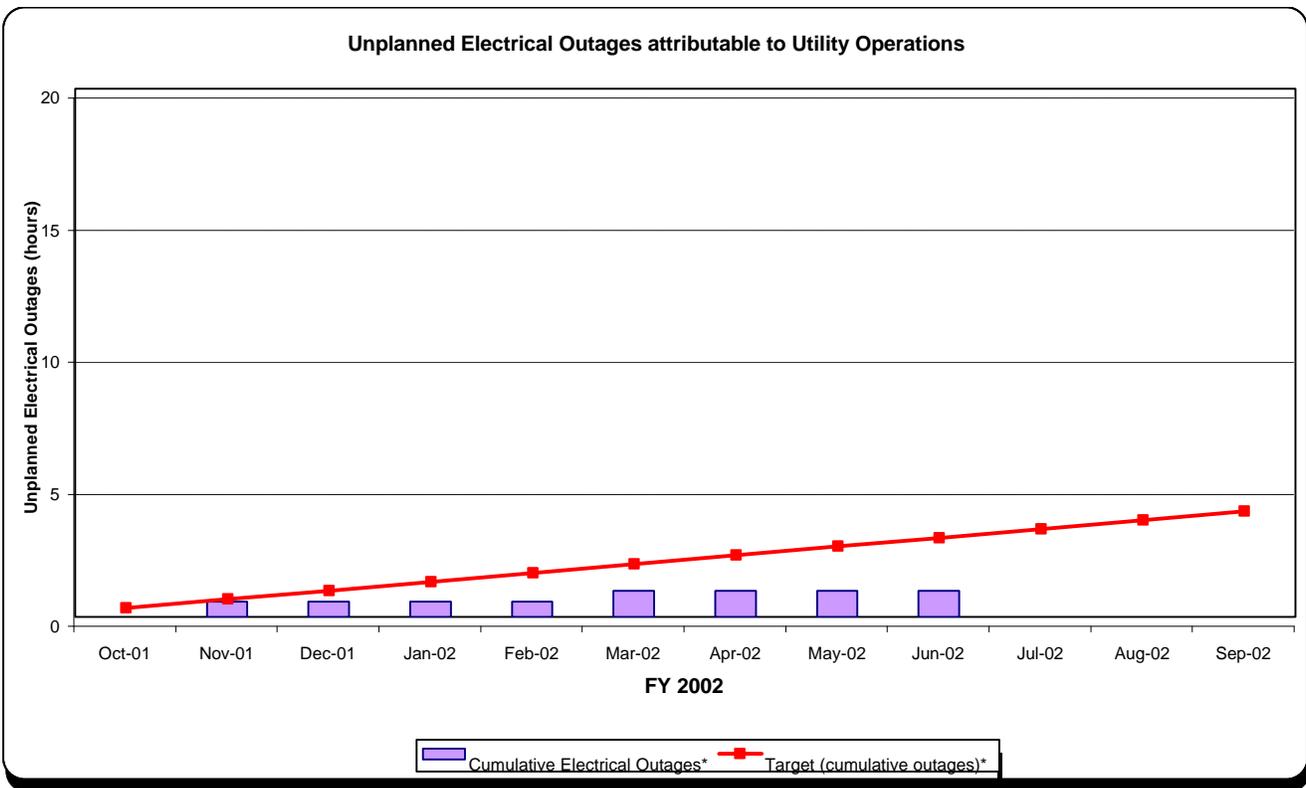
Performance Objective

OM-4 Utilities are effectively managed and utilized.

Performance Measure

4.5 Cumulative hours of unplanned electrical outages attributable to electrical utility operations.

Performance Expectation	Exceeds:	<4 hrs
	Meets:	4 - 6 hrs
	Needs Improvement:	>6 hrs
Performance Measure	<b>Actual to Date</b>	<b>0.98 hrs</b>



Measure 4.5	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02
Monthly Electrical Outages*	0	0.58	0	0	0	0.4	0	0	0			
<b>Cumulative Electrical Outages*</b>	0	0.58	0.58	0.58	0.58	0.98	0.98	0.98	0.98			
<b>Target (cumulative outages)*</b>	0.33	0.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00

\* Outages are reported in Hours





**ORNL Operations and Maintenance (O&M)  
Period Ending 6/30/02**

Performance Objective

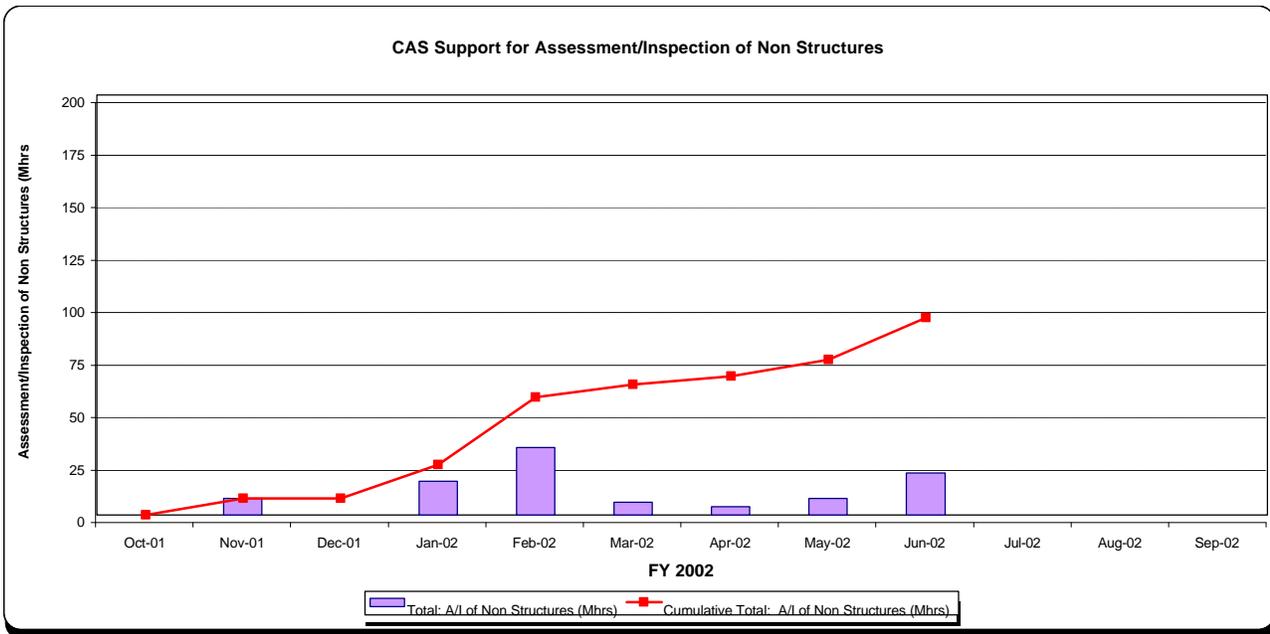
OM-5. The condition of physical assets is periodically inventoried and assessed to assist in objective planning of maintenance activities.

Performance Measure

5.3 Breakdown of man-hours spent on the assessment/inspection (A/I) of non structures assigned to the Laboratory. This measure has no expectation beyond the breakdown and reporting of all applicable man-hours.

Performance Expectation                      Breakdown and Reporting

Performance Measure                      **Actual to Date                      94 Manhours**



Measure 5.3	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	YTD
Miscellaneous Photography (Mhrs)		8		16	32			4	16				76
Side Walk Inspections (Mhrs)													-
Road Inspections (Mhrs)						6	4						10
Fence Inspections (Mhrs)													-
ADS Development (Mhrs)													-
Verification of Facility Dimensions (Mhrs)								4	4				8
Predictive Maintenance Support (Mhrs)													-
Preventive Maintenance Support (Mhrs)													-
Asbestos Inspections (Mhrs)													-
<b>Total: A/I of Non Structures (Mhrs)</b>	0	8	0	16	32	6	4	8	20				94
<b>Cumulative Total: A/I of Non Structures (Mhrs)</b>	0	8	8	24	56	62	66	74	94				

**ORNL Operations and Maintenance (O&M)  
Period Ending 6/03/02**

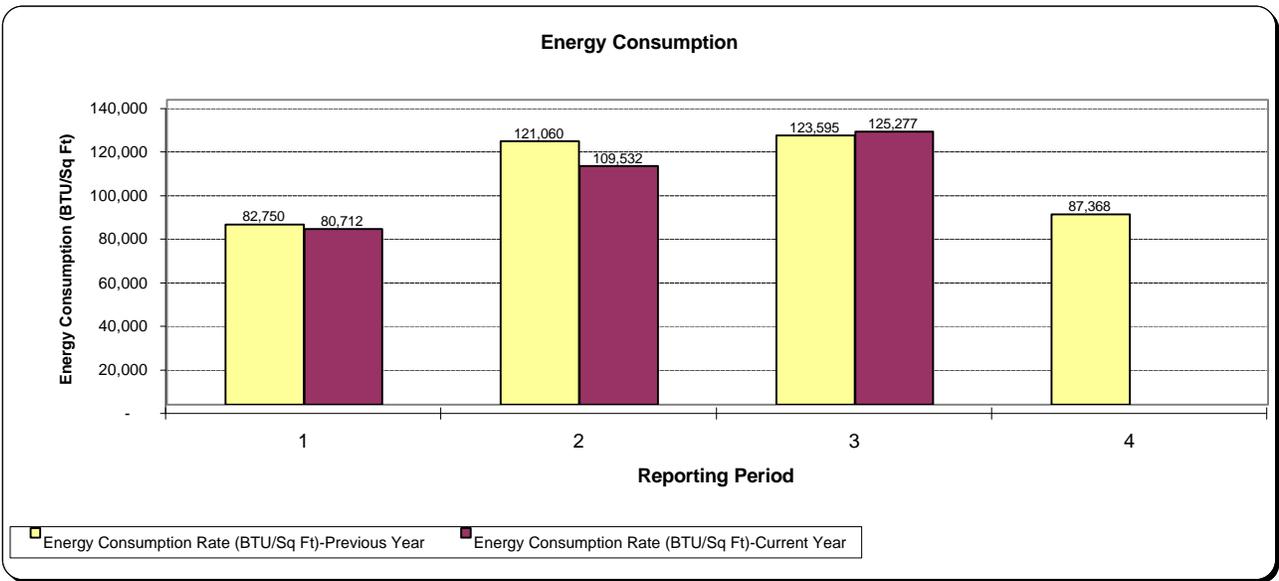
Performance Objective

OM-6 The utilization and conservation of energy is effectively managed commensurate with the site mission(s) in accordance with DOE Orders and regulations.

Performance Measure

6.1 Percentage of annual reduction in site energy (excluding metered process buildings) in Btu/Sq ft as compared to the previous four quarters.

Performance Expectation	Exceeds:	>2.7%
	Meets:	2.5% - 2.7%
	Needs Improvement:	<2.5%
Performance Measure	<b>Actual to Date</b>	<b>3.63%</b>



	Reporting Period 1	Reporting Period 2	Reporting Period 3	Reporting Period 4
<b>Measure 6.1</b>	<b>4 Qtr FY 2000</b>	<b>1 Qtr FY 2001</b>	<b>2 Qtr FY 2001</b>	<b>3 Qtr FY 2001</b>
Energy Consumption (BTU)	2.61E+11	3.83E+11	3.91E+11	2.76E+11
Site Area (Sq. Ft)	3,155,740	3,163,324	3,163,324	3,163,324
Energy Consumption Rate (BTU/Sq Ft)-Previous Year	82,750	121,060	123,595	87,368
Cumulative Energy Consumption Rate (BTU/Sq Ft)	82,750	203,810	327,405	414,773
	<b>4 Qtr FY 2001</b>	<b>1 Qtr FY 2002</b>	<b>2 Qtr FY 2002</b>	<b>3 Qtr FY 2002</b>
Energy Consumption (BTU)	2.55E+11	3.46E+11	3.96E+11	
Site Area (Sq. Ft)*	3,163,324	3,163,324	3,163,324	
Energy Consumption Rate (BTU/Sq Ft)-Current Year	80,712	109,532	125,277	
Cumulative Energy Consumption Rate (BTU/Sq Ft)	80,712	190,244	315,521	

\* - Site Area for FY 2002 was revised to reflect DOE's Facilities Information Management System (FIMS).

JUSTIFICATION: Previous data that were being reported last FY and this FY-to-date were based on an agreement last FY between DOE-ORO and ORNL that would have allowed the reclassification of some buildings from the Metered Process to the Buildings category. However, due to a continual reprogramming and restructuring of the EMS4 database by DOE-HQ, the building reclassifications were never accomplished by DOE-HQ. Therefore, to provide consistency with the two DOE databases as they exist today, the IHEM performance measure data, both baseline and this FY, were updated to match.

**ORNL Operations and Maintenance (O&M)  
Period Ending 6/30/02**

Performance Objective

OM-6 The utilization and conservation of energy is effectively managed commensurate with the site mission(s) in accordance with DOE Orders and regulations.

Performance Measure

6.2 Timely completion of currently awarded energy savings performance contract (ESPC) delivery orders.

Performance Expectation	Exceeds:	Complete construction on first ESPC delivery order by 2/28/02
	Meets:	Complete construction on first ESPC delivery order by 7/31/02
	Needs Improvement:	Complete construction on first ESPC delivery order after 7/31/02

Performance Measure	<b>Actual to Date</b>	<b>Exceeds</b>
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Update:

Construction activities began on October 2 and were expedited by both the ORNL ESPC Project Facilitator and the DukeSolutions Construction Manager. All of the ORNL Project Management tasks were also expedited through careful tracking and coordination to ensure that there were no delays on the project and that work progressed without any incidents, accidents, or injuries. As a result of the attention given this project by all of those on the construction team, this measure exceeded expectations by completing the construction phase in six and one-half weeks, on November 15, 2001, three months ahead of the targeted schedule.

**ORNL Operations and Maintenance (O&M)  
Period Ending 6/30/02**

Performance Objective

OM-6 The utilization and conservation of energy is effectively managed commensurate with the site mission(s) in accordance with DOE Orders and regulations.

Performance Measure

6.3 Timely updating of the ORNL Energy Management and Implementation Plan with the requirements of DOE Order 430.2X, which incorporates the requirements of Executive Order 13123.

Performance Expectation	Exceeds:	Plan updated by 2/28/02
	Meets:	Plan updated by 5/31/02
	Needs Improvement:	Plan updated after 5/31/02

Performance Measure	<b>Actual to Date</b>	<b>Exceeds</b>
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Update:

An updated Energy Management and Implementation Plan for ORNL was issued to DOE on February 19, 2002. The revised FY 2002 document was brought up to date with DOE's most current energy management plans and orders.

**OS-C Life Cycle Asset Management: Real and Personal Property Management (FY 2002)  
Period Ending 6/30/02**

Measure	Element Score Qtr 1	Element Score Cum-Qtr 2	Element Score Cum-Qtr3	Element Score Cum-Qtr4	Criteria Weight	Cumulative Criteria Score	Cumulative Final Score (Percent)
RP1	9.00	9.00	9.00		0.20	1.8000	<b>96.00%</b>
RP2	8.00	9.00	10.00		0.20	2.0000	
RP3	9.50	9.00	9.00		0.20	1.8000	
RP3.1*	no data	8.00	8.00				
RP3.2	9.00	9.00	9.00				
RP3.3	10.00	10.00	10.00				
RP4	10.00	10.00	10.00		0.20	2.0000	
RP5	10.00	10.00	10.00		0.20	2.0000	
RP5.1	10.00	10.00	10.00				
RP5.2	10.00	10.00	10.00				
<b>Cum Total</b>	<b>93.00%</b>	<b>94.00%</b>	<b>96.00%</b>		<b>1.00</b>	<b>9.6000</b>	

\*NOTE: RP 3.1 is expected to "Meet" or "Exceed" expectations by the end of the fiscal year.

**RATING: EXCELLENT**

## ORNL Business Management Review Self-Assessment for FY 2002

### ORNL Real and Personal Property Management Period Ending 6/30/02

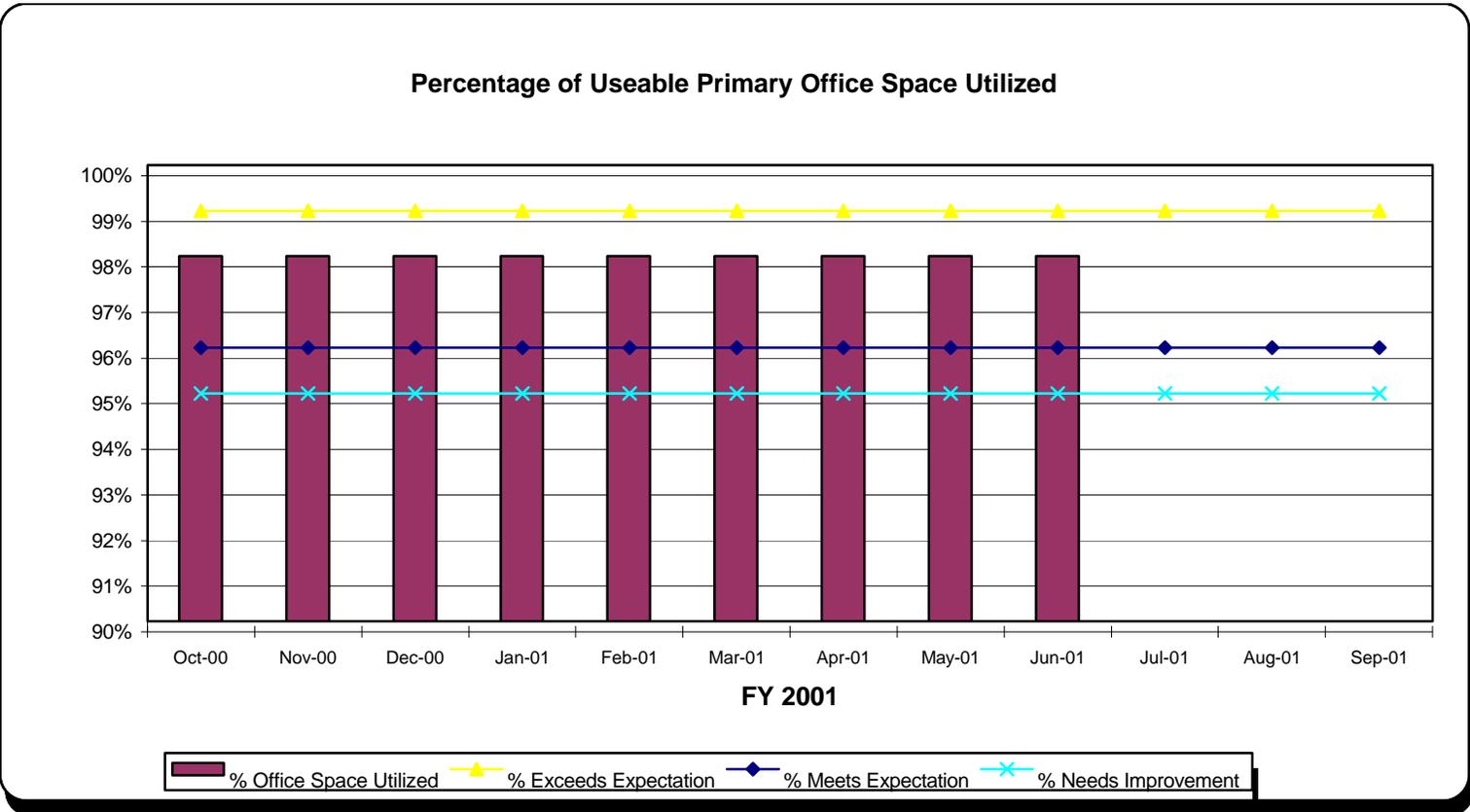
#### Performance Objective

RP-1 On-site space, including acquisition, leasing, and disposal, is effectively utilized.

#### Performance Measure

RP-1.1 Percentage of useable primary office space utilized as reported in the Laboratory Space Allocation Management Systems (SAMS) Database.

Performance Expectation RP-1.1	Exceeds:	≥99%
	Meets:	>96% - <99%
	Needs Improvement:	≤96%
Performance Measure	Actual to Date:	98%



RP-1.1.	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01
% Exceeds Expectation	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
% Meets Expectation	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%
% Needs Improvement	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%
% Office Space Utilized	98%	98%	98%	98%	98%	98%	98%	98%	98%			

## ORNL Business Management Review Self-Assessment for FY 2002

### ORNL Real and Personal Property Management Period Ending 6/30/02

#### Performance Objective

RP-2 Surplus property/materials are reutilized.

#### Performance Measure

RP-2.1 Amount of surplus property that is reutilized.

<b>Performance Expectation RP-2.1</b>	Exceeds:	≥\$7,000,000
	Meets:	\$6,000,000 - 7,000,000
	Needs Improvement:	<\$6,000,000
<b>Performance Measure:</b>	Actual to Date:	\$11,483,862

## ORNL Business Management Review Self-Assessment for FY 2002

### ORNL Real and Personal Property Management Period Ending 6/30/02

#### Performance Objective

RP-3 Accountable property is confirmed.

#### Performance Measure

RP-3.1 Percentage of inventory of equipment (acquisition cost of >\$5,000) that is confirmed.

<b>Performance Expectation RP-3.1</b>	Exceeds:	>99.75%
	Meets:	99.50% - 99.75%
	Needs Improvement:	<99.50%
<b>Performance Measure:</b>	Actual to Date:	89.19%

\*NOTE: RP 3.1 is expected to "Meet" or "Exceed" expectations by the end of the fiscal year.

## ORNL Business Management Review Self-Assessment for FY 2002

### ORNL Real and Personal Property Management Period Ending 6/30/02

#### Performance Objective

RP-3 Accountable property is confirmed.

#### Performance Measure

RP-3.2 Percentage of inventory of precious metals that is confirmed.

<b>Performance Expectation RP-3.2</b>	Exceeds:	NA
	Meets:	100%
	Needs Improvement:	<100%
<b>Performance Measure:</b>	Actual to Date:	100%

## ORNL Business Management Review Self-Assessment for FY 2002

### ORNL Real and Personal Property Management Period Ending 6/30/02

#### Performance Objective

RP-3 Accountable property is confirmed.

#### Performance Measure

RP-3.3 Percentage of inventory of stores that is confirmed.

<b>Performance Expectation RP-3.3</b>	Exceeds:	>99.75%
	Meets:	99.61% - 99.75%
	Needs Improvement:	<99.61%
<b>Performance Measure:</b>	Actual to Date:	100%

# ORNL Business Management Review Self-Assessment for FY 2002

## ORNL Real and Personal Property Management Period Ending 6/30/02

### Performance Objective

RP-4 Excessed property is disposed of in a timely and effective manner.

### Performance Measure

RP-4.1 Time frame for disposal of 90 percent of the total excessed uncontaminated property items.

### Performance Expectation RP-4.1

Exceeds: <120 days

Meets: 120 - 180 days

Needs Improvement: >180 days

### Performance Measure:

Actual to Date: 98.5% <120 days

# ORNL Business Management Review Self-Assessment for FY 2002

## ORNL Real and Personal Property Management Period Ending 6/30/02

### Performance Objective

RP-5. Effective processes are established to ensure that equipment and materials are being provided to meet customers' requirements.

### Performance Measure

RP-5.1 Percentage of items delivered to customer in less than one day.

<b>Performance Expectation RP-5.1</b>	Exceeds:	>95%
	Meets:	90% - 95%
	Needs Improvement:	<90%

<b>Performance Measure:</b>	Actual to Date:	100%
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# ORNL Business Management Review Self-Assessment for FY 2002

## ORNL Real and Personal Property Management Period Ending 6/30/02

### Performance Objective

RP-5 Effective processes are established to ensure that equipment and materials are being provided to meet customers' requirements.

### Performance Measure

RP-5.2 Percentage of items where the "return goods" cycle time from time of rejection until disposition was within one month.

<b>Performance Expectation RP-5.2</b>	Exceeds:	>95%
	Meets:	90%-95%
	Needs Improvement:	<90%

<b>Performance Measure:</b>	Actual to Date:	100%
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