

**LIFE CYCLE ASSET MANAGEMENT
PERFORMANCE MEASURES
FY 2003 SECOND QUARTER
RESULTS REPORT**

FOR THE

**OAK RIDGE NATIONAL
LABORATORY**

October 1, 2002 – March 31, 2003

**Prepared by
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managed by
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 criterion was calculated:

$$C_i = \frac{1}{N} \sum_n (P)_n$$

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:

$$I_x = \sum_i W_i C_i$$

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.

<u>Performance Level (P)</u>	<u>Rating</u>
≥ 97.5	Outstanding
$92.5\% \leq P < 97.5\%$	Excellent
$90.0\% \leq P < 92.5\%$	Good
$< 90.0\%$	Marginal

**OS-A Life Cycle Asset Management: Project Management (FY 2003)
Period Ending 3/31/03**

Measure	Element Score Qtr 1	Element Score Cum-Qtr 2	Element Score Cum-Qtr 3	Element Score Cum-Qtr 4	Criteria Weight	Cumulative Criteria Score	Cumulative Final Score (Percent)	
PM1	10.00	10.00			0.30	3.0000		
PM1.1	10.00	10.00						
PM2	9.25	9.25			0.60	5.5500		
PM2.1.1	10.00	10.00						
PM2.1.2	10.00	10.00						
PM2.2.1	8.00	8.00						
PM2.2.2	9.00	9.00						
PM3	10.00	10.00			0.10	1.0000		
PM 3.1	10.00	10.00						
Cum Total	95.50%	95.50%			1.00	9.5500		95.50%

RATING: EXCELLENT

ORNL Business Management Review Self-Assessment for FY 2003

**ORNL Engineering and Construction Management
Period Ending 3/31/03**

Performance Objective

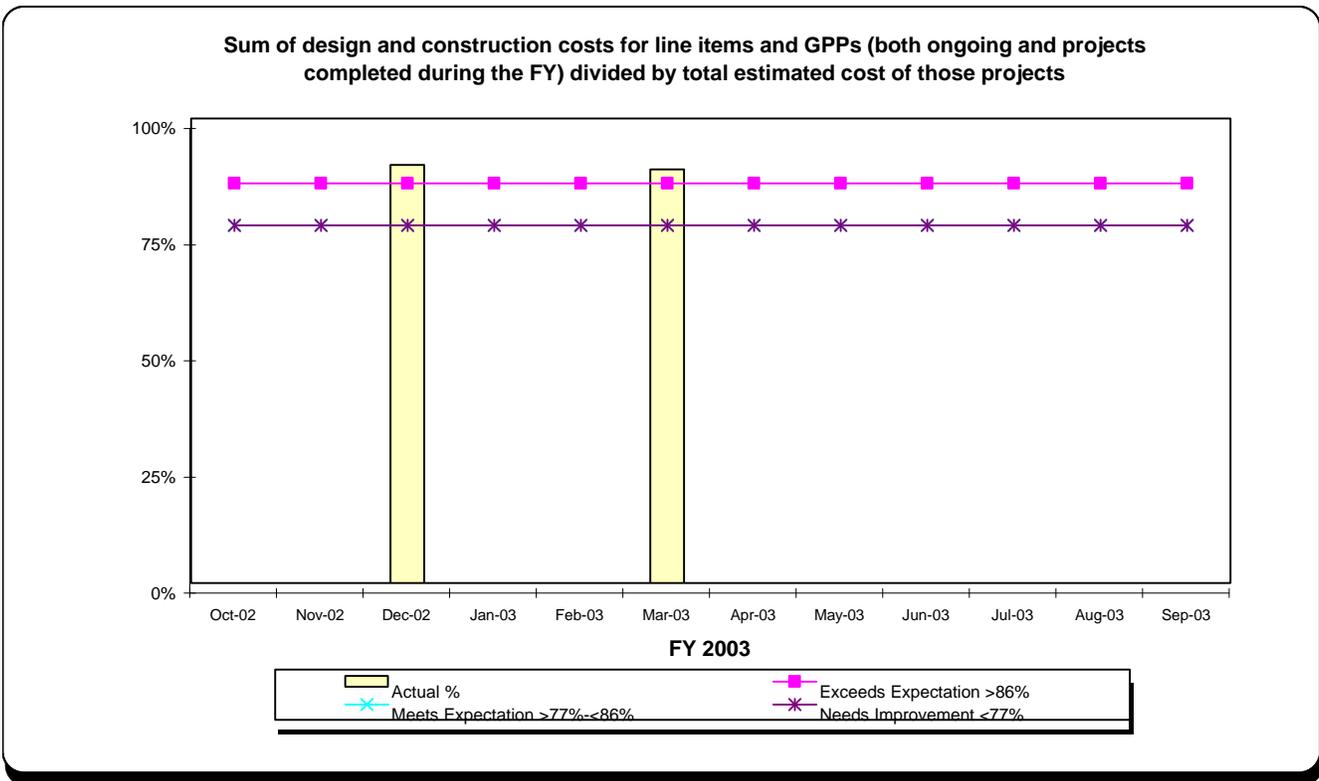
1. Demonstrate efficient use of capital funds for Engineering design and construction activities.

Performance Measure

1.1 Sum of design and construction costs for line items and GPPs¹ (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).²

Performance Expectation 1.1.1

FY 2003
 Exceeds: $\geq 86\%$
 Meets: $\geq 77\% - < 86\%$
 Needs Improvement: $< 77\%$
 Actual: 89%



1.1.1 Demonstrate efficient use of capital funds for Engineering design and construction activities	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
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%			89%						

- 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 F&O) directly related to construction and materials procurement costs. For projects completed during FY, use final or estimated final costs.

	Baseline	Approved	Current	Estimated	% of
	TEC	Fin Plan	CWE	Design&Const Cost	TEC
	143,081	77,095	126,805	113,217	89%

Projects in Performance Measure

Title	Baseline	Approved	Current	Estimated	% of
	TEC	Fin Plan	CWE	Design&Const Cost	
3500 Nano Science	1,800	1,820	1,830	1,400	77%
Advance Materials Characterization Laboratory	4,800	2,260	4,260	3,975	93%
East Campus Electrical Upgrade	765	765	765	700	92%
7602 High Bay Area Upgr.	850	850	850	710	84%
Telecommunications Upgrade	2,200	2,200	1,875	1,635	87%
7625 Multi-Program Highbay	4,800	50	4,023	3,735	93%
Quadrangle Common Area	3,100	200	2,575	2,347	91%
Fire Protection Upgrade - 7930	400	400	315	235	75%
Rebuild Steam Station & Supply piping, Bldg 7920	750	750	661	511	77%
Natural Gas Line	340	340	270	260	96%
6007 Roof Modification	240	186	169	140	83%
Upgrade Sewage Collection, East Campus	300	270	270	209	77%
Way Finding Signs	300	300	275	235	85%
East Campus Storm Drain Modifications	370	390	370	322	87%
East Campus Utility Modifications	500	100	450	400	89%
Facility Upgrades, Building 4512	425	425	375	348	93%
5510A Renovations-Metrology Services/Measurements	330	330	310	280	90%
Roads and Parking Lots Paving	460	460	440	365	83%
Central Avenue Extension	1,225	1,042	1,000	1,050	105%
1506 Greenhouse Renovation	3,000	630	2,500	2,070	83%
4508 Power System Upgrade	200	200	169	136	80%
5510 HVAC Upgrade	350	350	325	300	92%
Main Entrance Mods & Parking	2,650	200	2,282	2,079	91%
SIOU Parking Lot	150	150	130	115	88%
Sub-Total GPPs	30,305	14,668	26,489	23,557	89%
Electrical Systems Upgrade	5,900	5,900	5,880	5,285	90%
Upgrade HVAC	7,055	7,055	6,791	5,437	80%
Fire Protection Systems Upgrade	5,892	5,892	5,095	3,930	77%
Laboratory for Comparative and Functional Genomics	13,900	13,900	13,190	12,590	95%
Research Support Center	16,041	3,500	14,372	12,190	85%
Center for Nanophase Materials Science	63,988	26,180	54,988	50,228	91%
Sub-Total LIs	112,776	62,427	100,316	89,660	89%
Total	143,081	77,095	126,805	113,217	89%

ORNL Business Management Review Self-Assessment for FY 2003

**ORNL Engineering and Construction Management
Period Ending 3/31/03**

Performance Objective

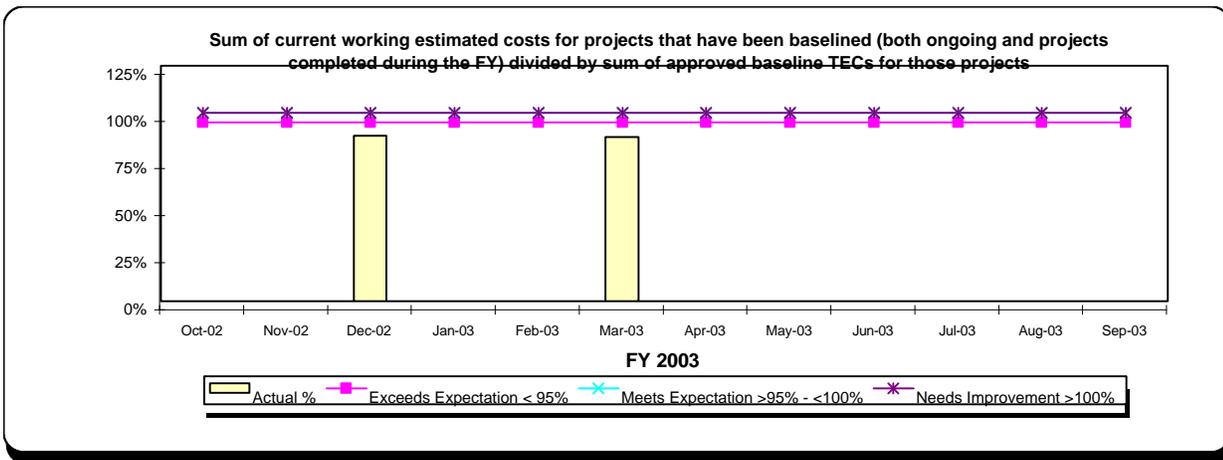
2. Approved technical, cost, and schedule baselines³ are met without significant changes.

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 2003
 Exceeds: ≤ 95%
 Meets: >95% - ≤100%
 Needs Improvement: >100%
 Actual: 87%



2.1.1 Est/Act CWEs /Baseline TECs	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
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 %			88%			87%						

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
3500 Nano Science	1,800	1,830	102%
Advance Materials Characterization Laboratory	4,800	4,260	89%
East Campus Electrical Upgrade	765	765	100%
7602 High Bay Area Upgr.	850	850	100%
Telecommunications Upgrade	2,200	1,875	85%
7600 Area Highbay	4,800	4,023	84%
Quadrangle Common Area	3,100	2,575	83%
Fire Protection Upgrade - 7930	400	315	79%
Rebuild Steam Station & Supply piping, Bldg 7920	750	661	88%
Natural Gas Line	340	270	79%
6007 Roof Modification	240	169	70%
Upgrade Sewage Collection, East Campus	300	270	90%
Way Finding Signs	300	275	92%
East Campus Storm Drain Modifications	370	370	100%
East Campus Utility Modifications	500	450	90%
Facility Upgrades, Building 4512	425	375	88%
5510A Renovations-Metrology Services/Measurements Lab	330	310	94%
Roads and Parking Lots Paving	460	440	96%
Central Avenue Extension	1,225	1,000	82%
1506 Greenhouse Renovation	3,000	2,500	83%
4508 Power System Upgrade	200	169	85%
5510 HVAC Upgrade	350	325	93%
East Campus Entry & Parking	2,650	2,282	86%
SIOU Parking Lot	150	130	87%
Total	30,305	26,489	87%

ORNL Business Management Review Self-Assessment for FY 2003

**ORNL Engineering and Construction Management
Period Ending 3/31/03**

Performance Objective

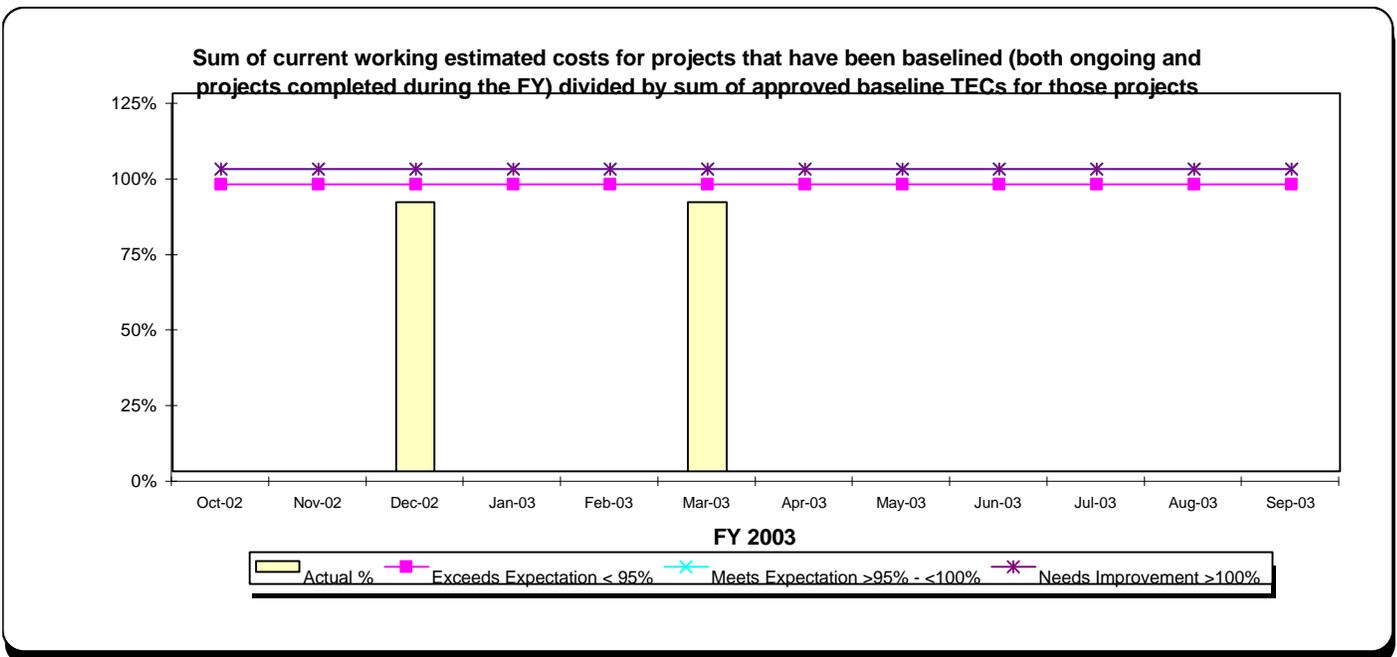
2. Approved technical, cost, and schedule baselines³ are met without significant changes.

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 2003
 Exceeds: ≤ 95%
 Meets: >95% - ≤100%
 Needs Improvement: >100%
 Actual: 89%



2.1.2 Est/Act CWEs/Baseline TECs	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
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 %			89%			89%						

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	5,880	100%
Upgrade HVAC	7,055	6,791	96%
Fire Protection Systems Upgrade	5,892	5,095	86%
Laboratory for Comparative and Functional Genomics	13,900	13,190	95%
Research Support Center	16,041	14,372	90%
Center for Nanophase Materials Science	63,988	54,988	86%
Total	112,776	100,316	89%

ORNL Business Management Review Self-Assessment for FY 2003

ORNL Engineering and Construction Management
Period Ending 3/31/03

Performance Objective

2. Approved technical, cost, and schedule baselines³ are met without significant changes.

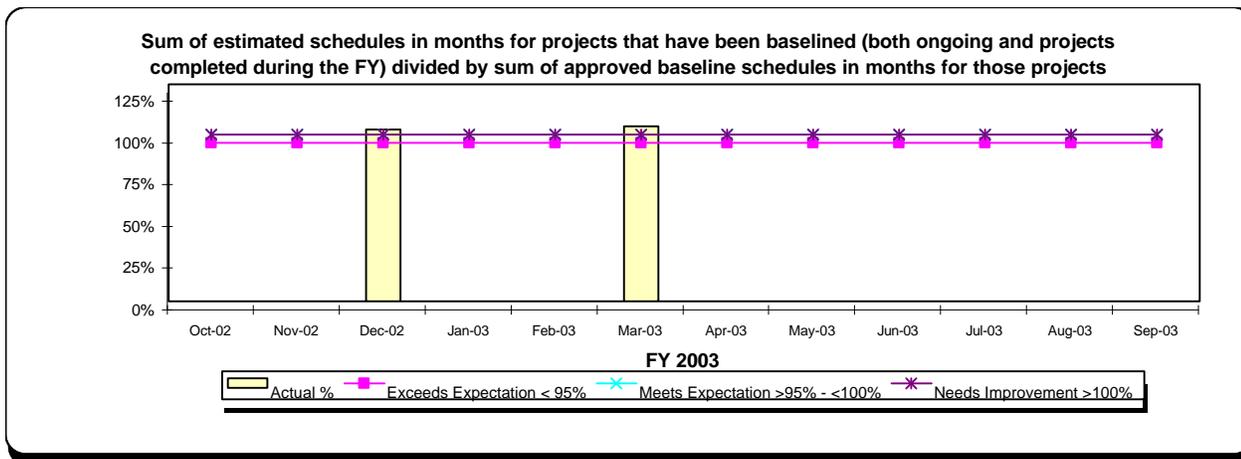
Performance Measure

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 2003

Exceeds: ≤ 95%
Meets: >95% - ≤100%
Needs Improvement: >100%
Actual: 105%



2.2.1 Est/Act Duration/Baseline Duration	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
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 %			103%			105%						

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
3500 Nano Science	35 months	37 months	106%
Advance Materials Characterization Laboratory	29 months	29 months	100%
East Campus Electrical Upgrade	13 months	26 months	200%
7602 High Bay Area Upgr.	53 months	53 months	100%
Telecommunications Upgrade	10 months	10 months	100%
7600 Area Highbay	14 months	11 months	79%
Quadrangle Common Area	28 months	28 months	100%
Fire Protection Upgrade - 7930	10 months	10 months	100%
Rebuild Steam Station & Supply piping, Bldg 7920	16 months	16 months	100%
Natural Gas Line	9 months	9 months	100%
6007 Roof Modification	4 months	6 months	150%
Upgrade Sewage Collection, East Campus	11 months	12 months	109%
Way Finding Signs	14 months	19 months	136%
East Campus Storm Drain Modifications	12 months	13 months	108%
East Campus Utility Modifications	23 months	20 months	87%
Facility Upgrades, Building 4512	5 months	7 months	140%
5510A Renovations-Metrology Services/Measurements Lab	5 months	6 months	120%
Roads and Parking Lots Paving	15 months	15 months	100%
1506 Greenhouse Renovation	19 months	17 months	89%
4508 Power System Upgrade	4 months	5 months	125%
5510 HVAC Upgrade	10 months	7 months	70%
East Campus Entry & Parking	18 months	18 months	100%
SIOU Parking Lot	10 months	12 months	120%
Central Avenue Extension	15 months	15 months	100%
Total	382 months	401 months	105%

ORNL Business Management Review Self-Assessment for FY 2003

**ORNL Engineering and Construction Management
Period Ending 3/31/03**

Performance Objective

2. Approved technical, cost, and schedule baselines³ are met without significant changes.

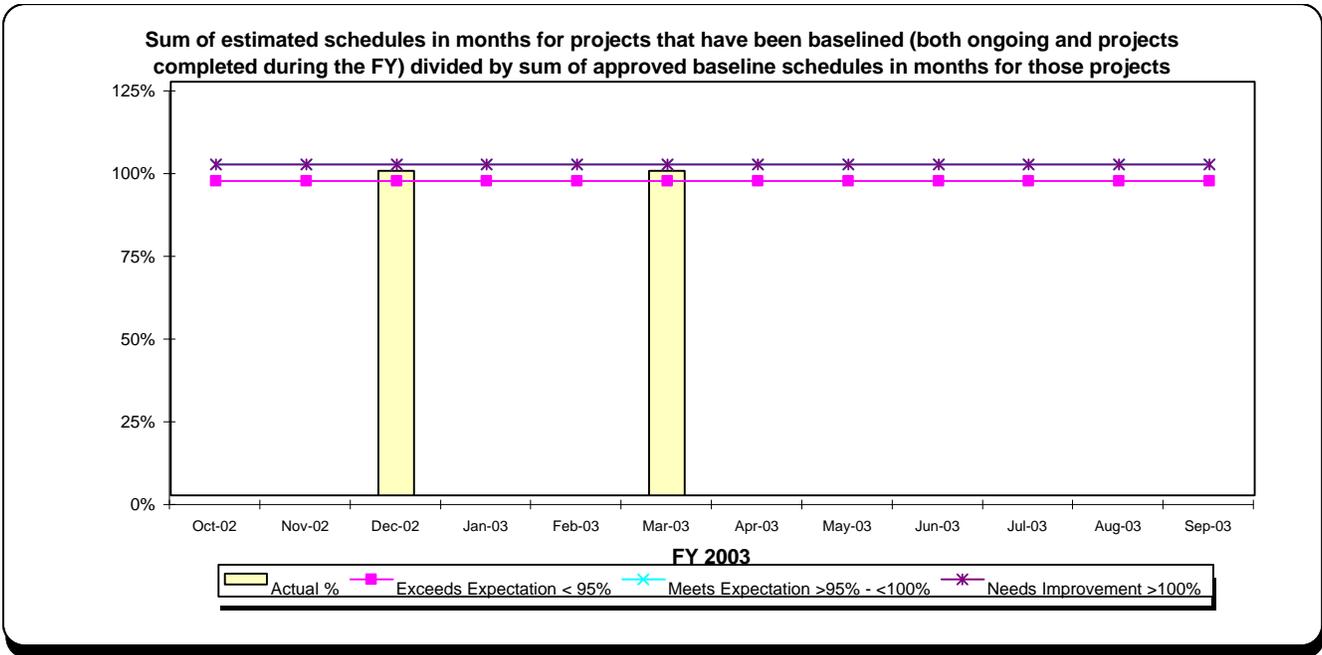
Performance Measure

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 2003

Exceeds: ≤ 95%
 Meets: >95% - ≤100%
 Needs Improvement: >100%
 Actual: 98%



2.2.2 Est/Act Duration/Baseline Duration	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
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 %			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	34 mo.	34 mo.	100%
Upgrade HVAC	42 mo.	37 mo.	88%
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%
Total	262 mo.	257 mo.	98%

ORNL Business Management Review Self-Assessment for FY 2003

**ORNL Engineering and Construction Management
Period Ending 3/31/03**

Performance Objective

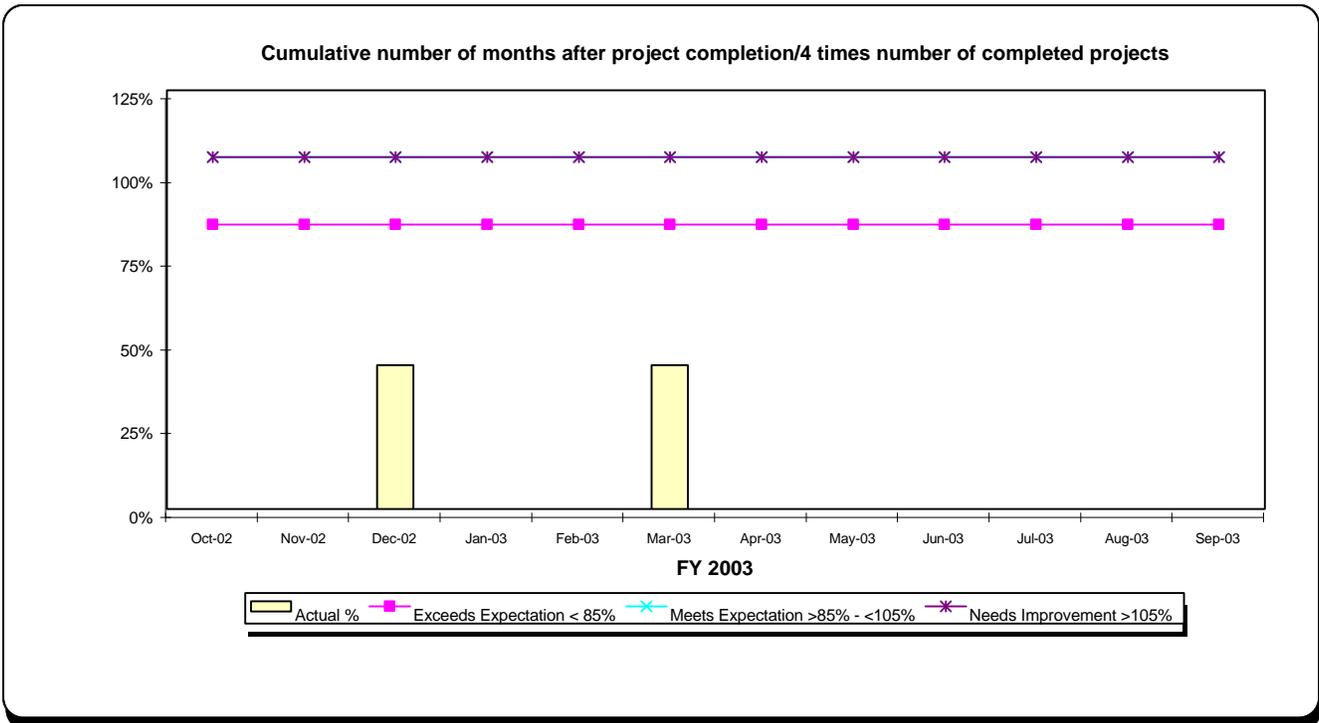
3. Capital projects are closed in a timely fashion.

Performance Measure

3.1 Cumulative number of months after project completion/4 times number of completed projects.⁴

Performance Expectation 3.1.1

FY 2003
 Exceeds: ≤ 85%
 Meets: >85% - ≤105%
 Needs Improvement: >105%
 Actual to Date: 43%



4. Project completion is defined as beneficial occupancy for buildings and date of fieldwork completion (final acceptance report signed) if other than a building.

3.2.1 Facility turnover/project closeout	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
Exceeds Expectation ≤ 85%	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%
Meets Expectation >85% - ≤105%	105%	105%	105%	105%	105%	105%	105%	105%	105%	105%	105%	105%
Needs Improvement >105%	105%	105%	105%	105%	105%	105%	105%	105%	105%	105%	105%	105%
Actual %			43%			43%						

Projects in Performance Measure

Title	Actual Compl	FT/PC Compl	FT/PC Duration	FT/PC %
Bethel Valley Road Access Controls	Jun-02	Nov-02	5	125%
5th Street Entrance Mods.	Sep-02	Oct-02	1	25%
5th Street Southside Avenue Parking Lot	Sep-02	Oct-02	1	25%
7000 Area Parking Lot Expansion	Sep-02	Oct-02	1	25%
East Campus Infrastructure Improvements	Sep-02	Oct-02	1	25%
Southside Parking	Sep-02	Oct-02	1	25%
Natural Gas Line	Dec-02			
Roofing Replacement, Building 6007	Dec-02			
5510A Renovations-Metrology Services	Feb-03			

**OS-B Life Cycle Asset Management: Operations & Maintenance Management (FY 2003)
Period Ending 3/31/03**

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)
OM1	9.00	9.00			0.15	1.3500	
OM1.1	9.00	9.00					
OM2	9.00	9.33			0.35	3.2667	
OM2.1	8.00	8.00					
OM2.2	10.00	10.00					
OM2.3	9.00	10.00					
OM3	9.33	9.33			0.15	1.4000	
OM3.1	10.00	10.00					
OM3.2	10.00	10.00					
OM3.3	9.00	9.00					
OM3.4	10.00	10.00					
OM3.5	8.00	8.00					
OM3.6	9.00	9.00					
OM4	10.00	10.00			0.15	1.5000	
OM4.1	10.00	10.00					
OM4.2	10.00	10.00					
OM4.3	10.00	10.00					
OM4.4	10.00	10.00					
OM4.5	10.00	10.00					
OM5	10.00	10.00			0.15	1.5000	
OM5.1	10.00	10.00					
OM5.2	10.00	10.00					
OM5.3*	NA	NA					
OM6	9.33	8.67			0.05	0.4333	
OM6.1	10.00	8.00					
OM6.2	9.00	9.00					
OM6.3	9.00	9.00					
Cum Total	93.67%	94.50%			1.00	9.4500	94.50%

RATING: EXCELLENT

*OM 5.3 has no expectation beyond reporting.

**ORNL Operations and Maintenance (O&M)
Period Ending 3/31/03**

Performance Objective

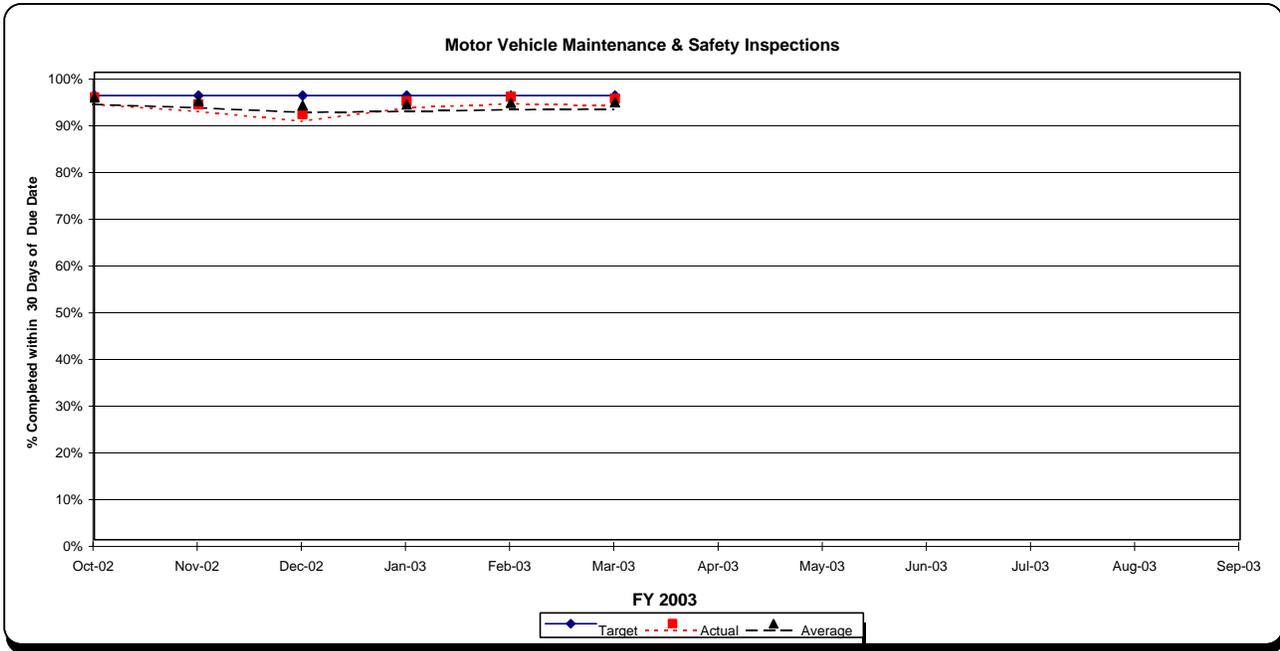
OM-3 Motor vehicle and heavy equipment maintenance is timely and effective.

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 93.6%



Measure 3.3	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
Target	95%	95%	95%	95%	95%	95%						
Actual	94.6%	93.1%	91.0%	93.8%	94.8%	94.4%						
Average	94.6%	93.8%	92.9%	93.1%	93.5%	93.6%						
Number of Vehicles	537	536	534	534	534	534						
Overdue Veh Maint & Safety Inspections	29	37	48	33	28	30						

**ORNL Operations and Maintenance (O&M)
Period Ending 3/31/03**

Performance Objective

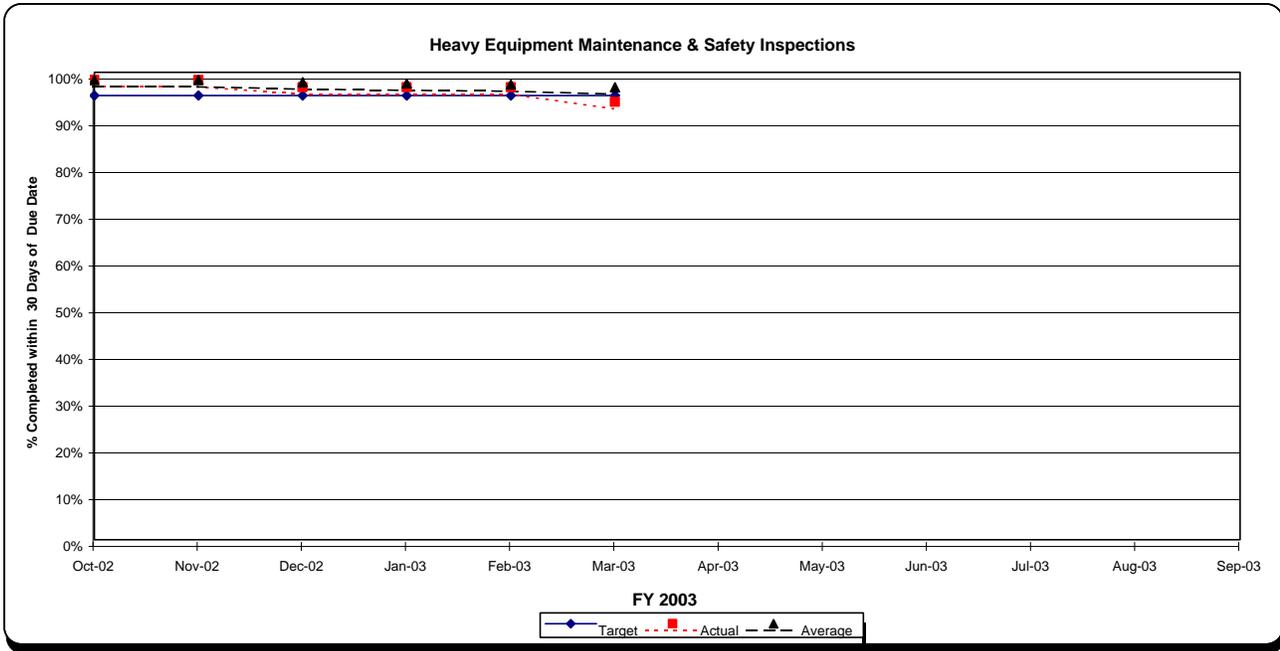
OM-3 Motor vehicle and heavy equipment maintenance is timely and effective.

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	96.8%



Measure 3.4	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
Target	95%	95%	95%	95%	95%	95%						
Actual	98.4%	98.4%	96.8%	96.8%	96.8%	93.7%						
Average	98.4%	98.4%	97.9%	97.6%	97.4%	96.8%						
Number of Vehicles	62	62	63	63	63	63						
Overdue Veh Maint & Safety Inspections	1	1	2	2	2	4						

**ORNL Operations and Maintenance (O&M)
Period Ending 3/31/03**

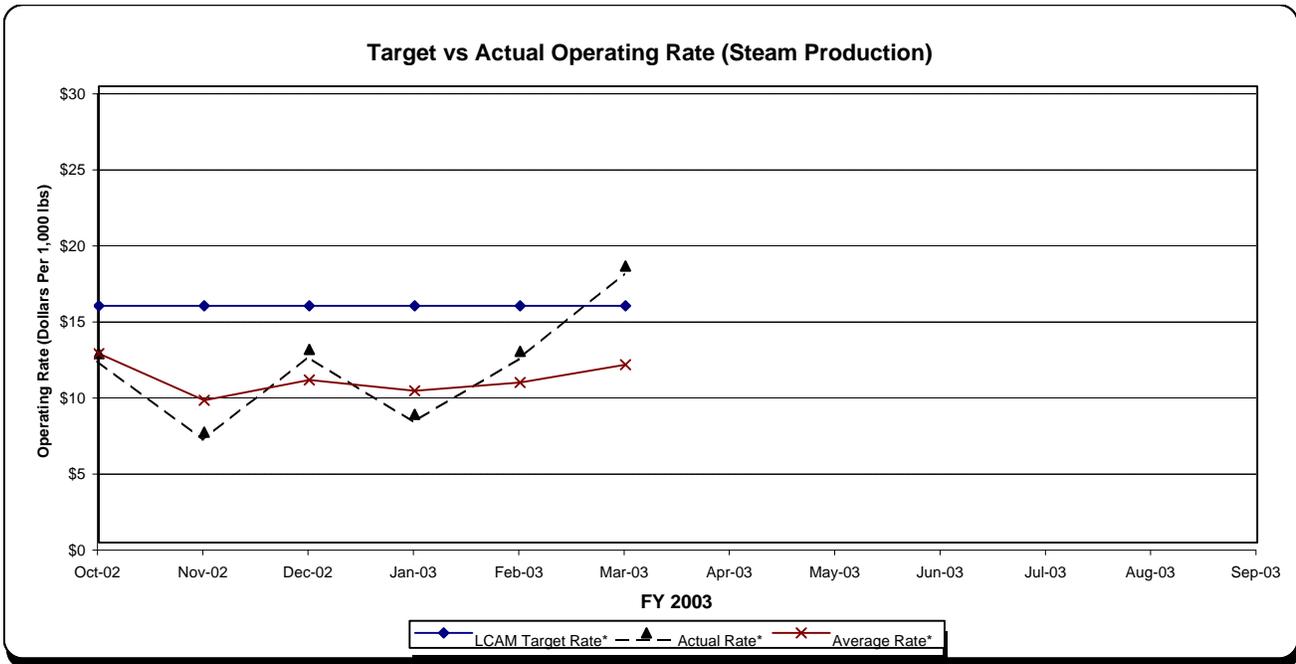
Performance Objective

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	Actual to Date**	75.1%



Measure 4.1	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
LCAM Target Rate*	\$15.56	\$15.56	\$15.56	\$15.56	\$15.56	\$15.56						
Actual Rate*	\$12.42	\$7.26	\$12.69	\$8.43	\$12.57	\$18.17						
Average Rate*	\$12.42	\$9.36	\$10.68	\$9.97	\$10.52	\$11.69						
Total Operating Cost	\$560,598	\$481,016	\$934,354	\$717,060	\$917,867	\$1,124,006						
Total Production (lbs)	45,122,000	66,221,000	73,636,000	85,074,000	73,033,000	61,846,000						

* - Rates are in cost per 1,000 lbs

**ORNL Operations and Maintenance (O&M)
Period Ending 3/31/03**

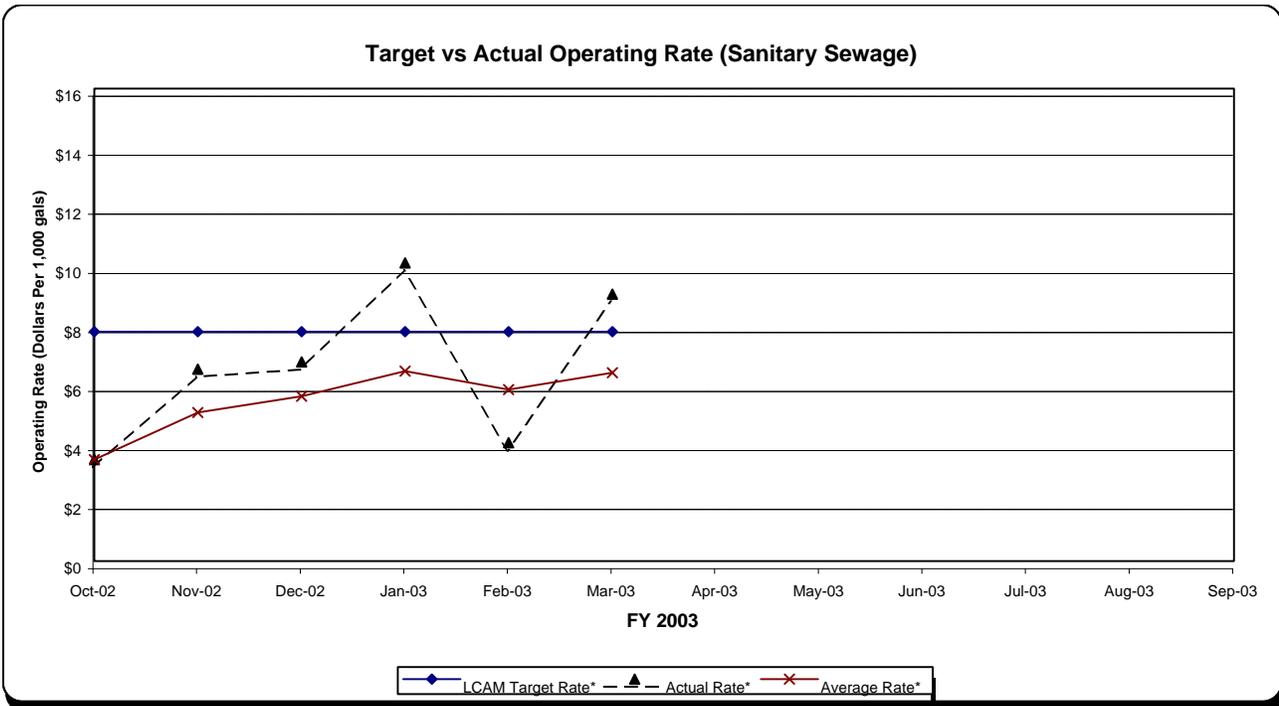
Performance Objective

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	Actual to Date**	82.1%



Measure 4.2	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
LCAM Target Rate*	\$7.77	\$7.77	\$7.77	\$7.77	\$7.77	\$7.77						
Actual Rate*	\$3.44	\$6.50	\$6.74	\$10.10	\$4.01	\$9.04						
Average Rate*	\$3.44	\$5.03	\$5.58	\$6.43	\$5.80	\$6.38						
Total Operating Cost	\$18,484	\$38,188	\$35,764	\$38,543	\$28,314	\$53,455						
Total Treatment (gals)	5,379,580	5,877,460	5,302,660	3,816,310	7,065,550	5,911,860						

* - Rates are in cost per 1,000 gallons. Included in the FY03 rate is \$32,618 to correct deficiencies identified in the recent Sanitary Sewer Smoke Test.

**ORNL Operations and Maintenance (O&M)
Period Ending 3/31/03**

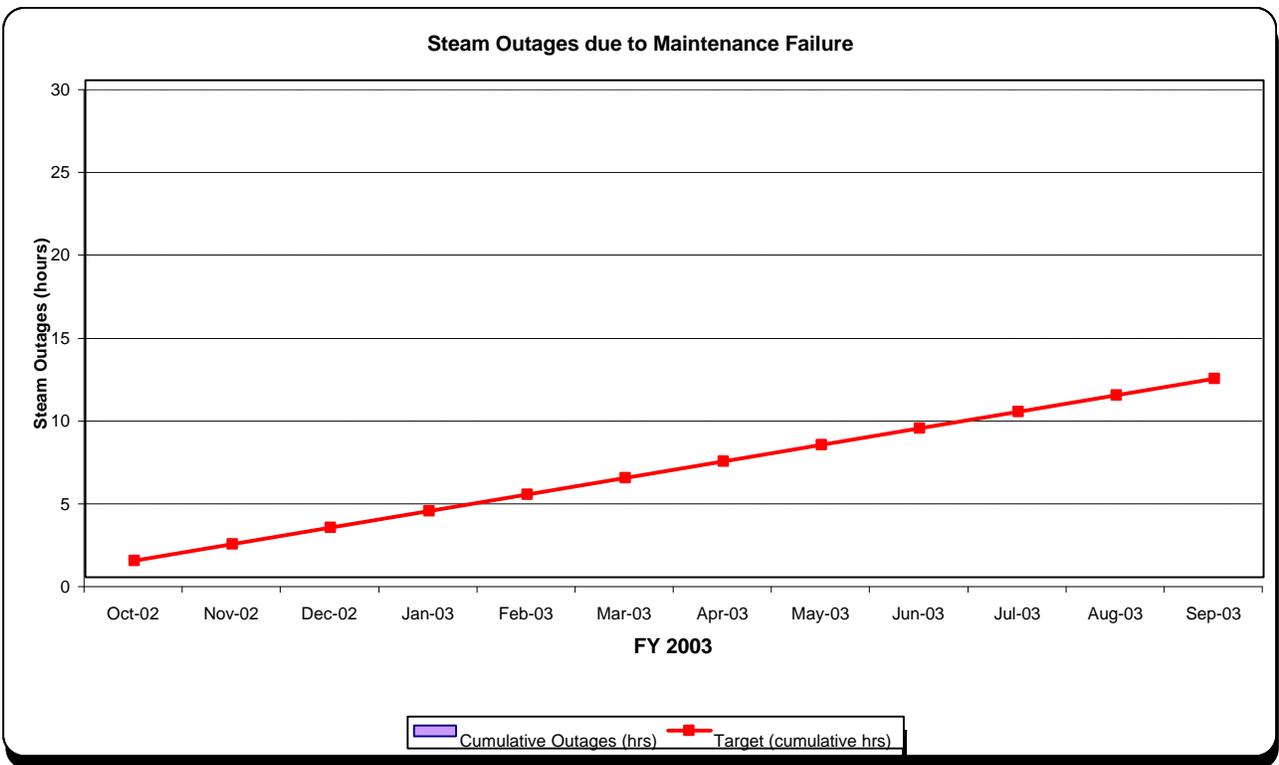
Performance Objective

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	Actual to Date	0 hrs



Measure 4.3	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
Monthly Outages (hrs)	0	0	0	0	0	0						
Cumulative Outages (hrs)	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 3/31/03**

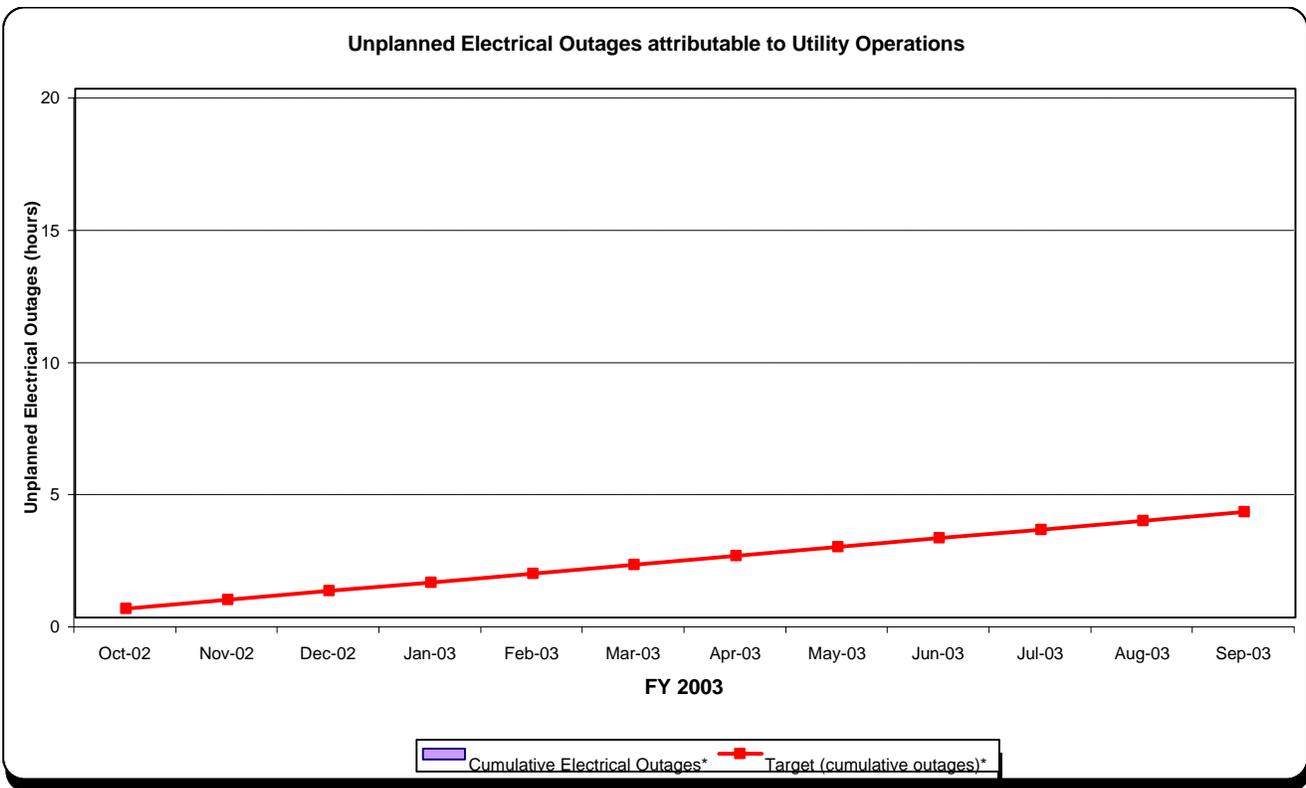
Performance Objective

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	Actual to Date	0.00 hrs



Measure 4.5	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
Monthly Electrical Outages*	0	0	0	0	0	0						
Cumulative Electrical Outages*	0	0	0	0	0	0						
Target (cumulative outages)*	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 3/31/03**

Performance Objective

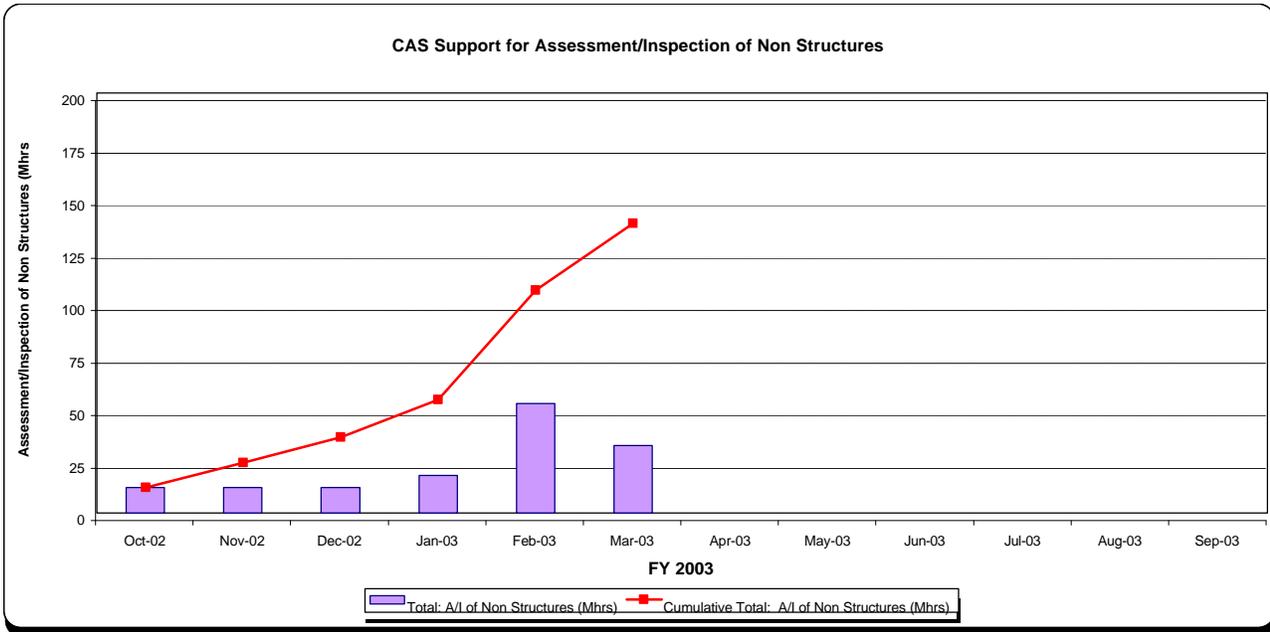
OM-5. The condition of physical assets is periodically inventoried and assessed to assist in objective planning of maintenance activities.

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 138 Manhours**



Measure 5.3	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03	YTD
Miscellaneous Photography (Mhrs)	4	4	4	4	8	16							40
Side Walk Inspections (Mhrs)													-
Road Inspections (Mhrs)	4	4	4	10	40	16							78
Fence Inspections (Mhrs)													-
ADS Development (Mhrs)													-
Verification of Facility Dimensions (Mhrs)	4	4	4	4	4								20
Predictive Maintenance Support (Mhrs)													-
Preventive Maintenance Support (Mhrs)													-
Asbestos Inspections (Mhrs)													-
Total: A/I of Non Structures (Mhrs)	12	12	12	18	52	32							138
Cumulative Total: A/I of Non Structures (Mhrs)	12	24	36	54	106	138							

**ORNL Operations and Maintenance (O&M)
Period Ending 3/31/03**

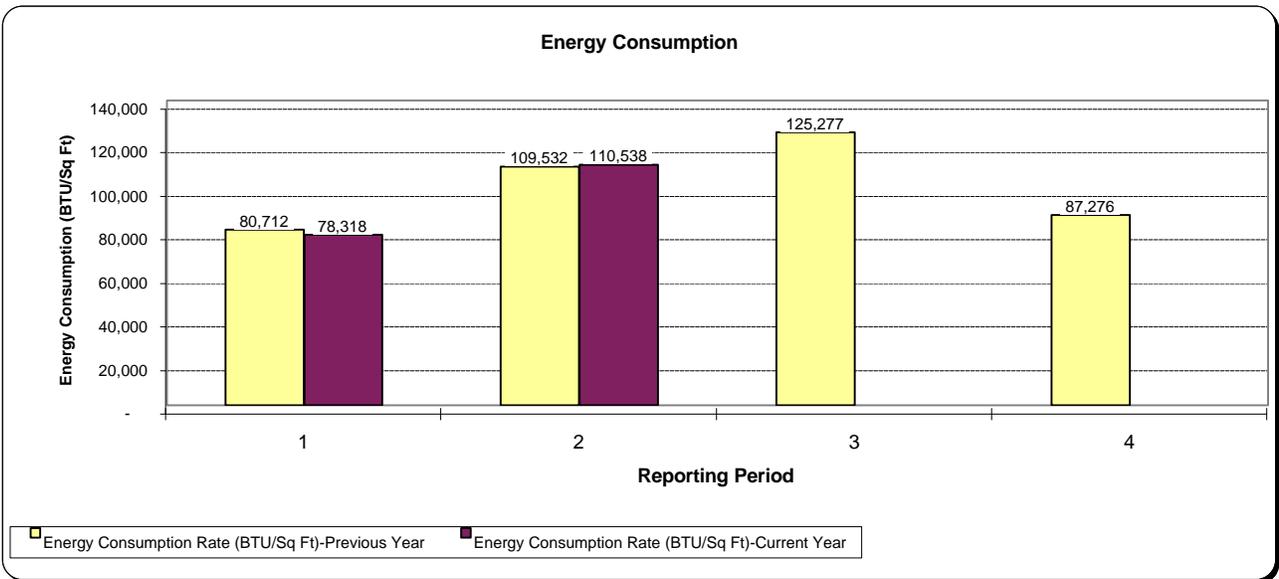
Performance Objective

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:	>2.3%
	Meets:	2.1% - 2.3%
	Needs Improvement:	<2.1%
Performance Measure	Actual to Date	1.78%



	Reporting Period 1	Reporting Period 2	Reporting Period 3	Reporting Period 4
Measure 6.1	4 Qtr FY 2001	1 Qtr FY 2002	2 Qtr FY 2002	3 Qtr FY 2002
Energy Consumption (BTU)	2.55E+11	3.46E+11	3.96E+11	2.76E+11
Site Area (Sq. Ft)	3,163,324	3,163,324	3,163,324	3,163,324
Energy Consumption Rate (BTU/Sq Ft)-Previous Year	80,712	109,532	125,277	87,276
Cumulative Energy Consumption Rate (BTU/Sq Ft)	82,750	192,282	317,559	404,835
	4 Qtr FY 2002	1 Qtr FY 2003	2 Qtr FY 2003	3 Qtr FY 2003
Energy Consumption (BTU)	2.48E+11	3.50E+11		
Site Area (Sq. Ft)*	3,163,324	3,163,324		
Energy Consumption Rate (BTU/Sq Ft)-Current Year	78,318	110,538		
Cumulative Energy Consumption Rate (BTU/Sq Ft)	78,318	188,856		

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

**ORNL Operations and Maintenance (O&M)
Period Ending 3/31/03**

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 Achieve significant progress on the current site-wide energy savings performance contract (ESPC) Initial Proposal.

Performance Expectation	Exceeds:	Complete Detailed Energy Survey and Issue Revised Proposal
	Meets:	Complete Detailed Energy Survey
	Needs Improvement:	Detailed Energy Survey Not Completed

Performance Measure	Actual to Date	Meets
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Update: The energy service company that submitted the Initial Proposal is actively working to complete a Detailed Energy Survey. It is expected that the results of the Survey will be issued in late May.

**ORNL Operations and Maintenance (O&M)
Period Ending 3/31/03**

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. Note: In FY03, ORNL's Energy Management and Implementation Plan will be revised to bring it up to date with DOE's most current energy management plans and orders.

Performance Expectation	Exceeds:	Plan updated by 2/28/03
	Meets:	Plan updated by 5/31/03
	Needs Improvement:	Plan updated after 5/31/03

Performance Measure	Actual to Date	Meets
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Update: The FY 2003 ORNL Energy Management and Implementation Plan, updated to incorporate DOE's most current energy management plans and orders, was issued on February 5, 2003, exceeding expectations.

**OS-C Life Cycle Asset Management: Real and Personal Property Management (FY 2003)
Period Ending 3/31/03**

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			0.20	1.8000		
RP1.1	9.00	9.00						
RP2	8.00	8.00			0.20	1.6000		
RP2.1*	8.00	8.00						
RP3	9.50	9.00			0.20	1.8000		
RP3.1*	no data	8.00						
RP3.2	9.00	9.00						
RP3.3	10.00	10.00						
RP4	10.00	10.00			0.20	2.0000		
RP4.1	10.00	10.00						
RP5	10.00	10.00			0.20	2.0000		
RP5.1	10.00	10.00						
RP5.2	10.00	10.00						
Cum Total	93.00%	92.00%			1.00	9.2000		92.00%

*All RP measures are expected to "Meet" or "Exceed" expectations by the end of the fiscal year.

RATING: GOOD

ORNL Business Management Review Self-Assessment for FY 2003

ORNL Real and Personal Property Management Period Ending 3/31/03

Performance Objective

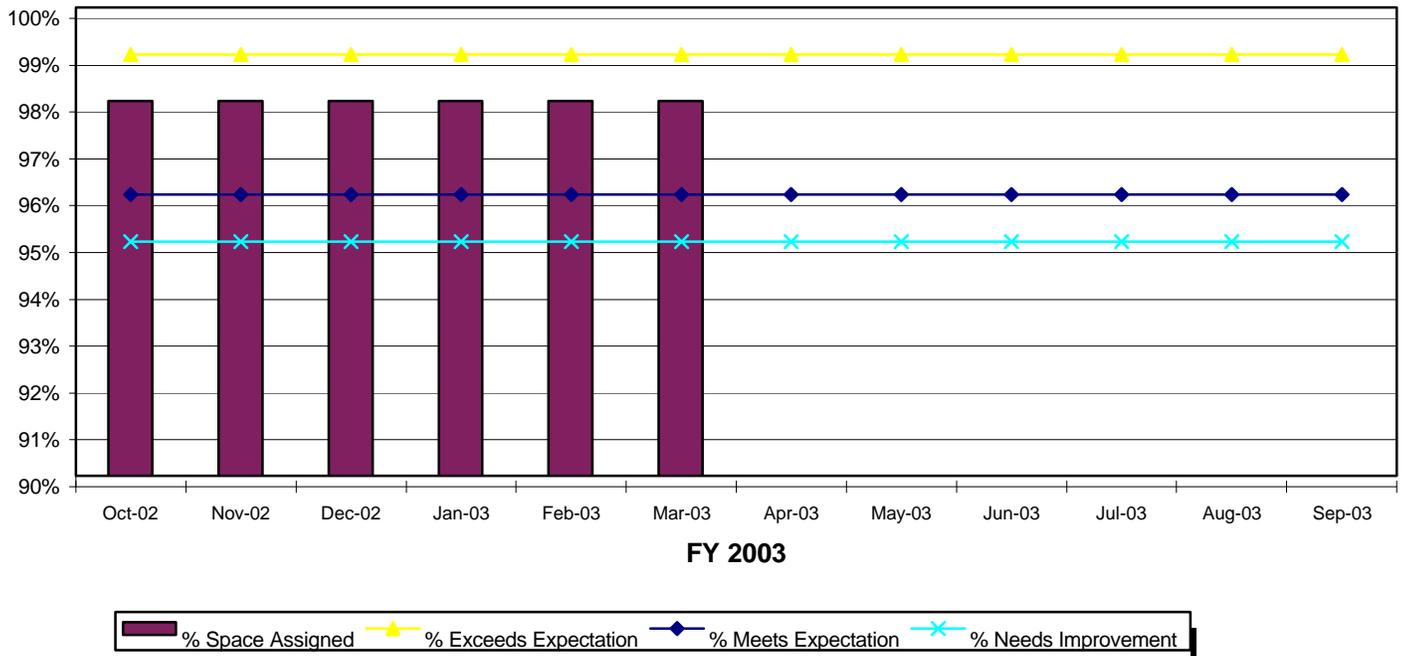
RP-1 On-site space, including acquisition, leasing, and disposal, is effectively utilized.

Performance Measure

RP-1.1 Percentage of useable space assigned as reported in the Laboratory Space Allocation Management System (SAMS) Database.

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

Percentage of Useable Primary Office Space Utilized



RP-1.1.	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
% 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%
% Space Assigned	98%	98%	98%	98%	98%	98%						

ORNL Business Management Review Self-Assessment for FY 2003

ORNL Real and Personal Property Management Period Ending 3/31/03

Performance Objective

RP-2 Surplus property/materials are reutilized.

Performance Measure

RP-2.1 Amount of surplus property that is reutilized.

Performance Expectation RP-2.1	Exceeds:	>\$5,000,000
	Meets:	\$4,000,000 - 5,000,000
	Needs Improvement:	<\$4,000,000
Performance Measure:	Actual to Date:*	\$2,697,145

*NOTE: This measure is expected to meet or exceed by the end of the fiscal year.

ORNL Business Management Review Self-Assessment for FY 2003

ORNL Real and Personal Property Management Period Ending 3/31/03

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.

Performance Expectation RP-3.1	Exceeds:	>99.75%
	Meets:	99.50% - 99.75%
	Needs Improvement:	<99.50%

Performance Measure:	Actual to Date:	75.03%*
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*NOTE: This measure is expected to meet or exceed by the end of the fiscal year.

ORNL Business Management Review Self-Assessment for FY 2003

ORNL Real and Personal Property Management Period Ending 3/31/03

Performance Objective

RP-3 Accountable property is confirmed.

Performance Measure

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

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

ORNL Business Management Review Self-Assessment for FY 2003

ORNL Real and Personal Property Management Period Ending 3/31/03

Performance Objective

RP-3 Accountable property is confirmed.

Performance Measure

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

Performance Expectation RP-3.3	Exceeds:	>99.75%
	Meets:	99.61% - 99.75%
	Needs Improvement:	<99.61%
Performance Measure:	Actual to Date:	99.90%

ORNL Business Management Review Self-Assessment for FY 2003

ORNL Real and Personal Property Management Period Ending 3/31/03

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: 97.6% <120 days

ORNL Business Management Review Self-Assessment for FY 2003

ORNL Real and Personal Property Management Period Ending 3/31/03

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 orders delivered to customer on an average in less than one day.

Performance Expectation RP-5.1	Exceeds:	>95%
	Meets:	90% - 95%
	Needs Improvement:	<90%
Performance Measure:	Actual to Date:	100%

ORNL Business Management Review Self-Assessment for FY 2003

ORNL Real and Personal Property Management Period Ending 3/31/03

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.

Performance Expectation RP-5.2	Exceeds:	>95%
	Meets:	90%-95%
	Needs Improvement:	<90%
Performance Measure:	Actual to Date:	99%