

LBNL ENVIRONMENTAL MANAGEMENT PROGRAM

<b>EMP Coordinator(s) and Organization(s):</b> Robert Fox (EH&S), Bill Llewellyn (Facilities)		<b>Revision Date:</b> 3/24/2009	<b>EMP No.:</b> 07-05B																												
<b>Aspect:</b> Petroleum Use	<b>Objective:</b> Reduce vehicle fleet petroleum consumption.	<b>Target:</b> Reduce fleet's annual petroleum consumption by 2% annually using Fiscal Year (FY) 2005 fleet fuel consumption as a baseline.																													
<b>Category:</b> <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Control <input type="checkbox"/> Study (short term)																															
<b>Strategy:</b> LBNL will reduce petroleum fuel usage by 2% per year using FY05 as the baseline year in order to meet Executive Order 13423 goals. In order to improve petroleum fuel usage for the LBNL vehicle fleet, Fleet Operations will implement the following measures: <ul style="list-style-type: none"> <li>• Reduce fleet size, when possible</li> <li>• Maximize use of alternative fuels, such as E85 (85% ethanol) and bio-diesel fuel (bio-diesel usage discontinued in FY07)</li> <li>• Replace gasoline vehicles with alternative fuel vehicles (e.g., ethanol, electric, hybrid, plug-in-hybrid) within General Services Administration (GSA) constraints</li> <li>• Use alternative fuel vehicles for high mileage activities, when possible</li> <li>• Replace less fuel efficient trucks with more fuel efficient sedans when possible</li> <li>• Replace same class vehicles with vehicles that have the highest fuel economy rating available through GSA if alternative fuel vehicles are not available.</li> </ul>																															
<b>Actions to Achieve Objective:</b>																															
<table border="1"> <thead> <tr> <th><i>Action</i></th> <th><i>Lead</i></th> <th><i>Due Date</i></th> <th><i>Completion Date</i></th> </tr> </thead> <tbody> <tr> <td>1. Begin implementation of petroleum use control strategy for fleet vehicles</td> <td>Fox, Llewellyn</td> <td>10/1/05</td> <td>10/1/05</td> </tr> <tr> <td>2. Determine FY05 fleet petroleum consumption baseline</td> <td>Fox</td> <td>11/30/05</td> <td>12/5/05</td> </tr> <tr> <td>3. Develop graphic to track annual performance</td> <td>Fox</td> <td>11/30/05</td> <td>1/17/06</td> </tr> <tr> <td>4. Report on fleet petroleum fuel usage savings, metrics, methods and goals for 6-month reporting cycle for FY 07</td> <td>Fox, Llewellyn</td> <td>7/31/08</td> <td>7/31/08</td> </tr> <tr> <td>5. Report on fleet petroleum fuel usage savings, metrics, methods and goals for FY08</td> <td>Fox, Llewellyn</td> <td>11/30/08</td> <td>11/26/08</td> </tr> <tr> <td>6. Repeat Actions 4 and 5 on an annual basis, with relevant updated criteria</td> <td>Fox, Llewellyn</td> <td></td> <td></td> </tr> </tbody> </table>				<i>Action</i>	<i>Lead</i>	<i>Due Date</i>	<i>Completion Date</i>	1. Begin implementation of petroleum use control strategy for fleet vehicles	Fox, Llewellyn	10/1/05	10/1/05	2. Determine FY05 fleet petroleum consumption baseline	Fox	11/30/05	12/5/05	3. Develop graphic to track annual performance	Fox	11/30/05	1/17/06	4. Report on fleet petroleum fuel usage savings, metrics, methods and goals for 6-month reporting cycle for FY 07	Fox, Llewellyn	7/31/08	7/31/08	5. Report on fleet petroleum fuel usage savings, metrics, methods and goals for FY08	Fox, Llewellyn	11/30/08	11/26/08	6. Repeat Actions 4 and 5 on an annual basis, with relevant updated criteria	Fox, Llewellyn		
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<b>Metrics (Environmental Performance Indicators):</b> 1. Fuel usage by GSA passenger vehicles, light trucks, and buses. 2. Number of low use vehicles eliminated per year (all types including buses).																															

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**Comments:**

Strategy change: In FY06, LBNL began to experience problems with bio-diesel (B20). One bus engine failed and had to be rebuilt. In FY07, emergency generators that were fueled with biodiesel failed to start when there was a blackout. Beginning in June 2007, LBNL discontinued the use of B20 and returned to using 100% diesel for the buses and the engine generators.

**EMP Closure Summary:**

Not applicable at this time.

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**NOTES / INSTRUCTIONS**

<b>FORM FIELD</b>	<b>NOTE</b>
EMP Coordinator(s)	Name the person(s) responsible for the accomplishment of the Environmental Management Program (EMP); That is, overseeing the workplan, monitoring and reporting progress, requesting changes to the workplan as appropriate.
Organization(s)	Name the organization(s) primarily impacted or affected by this EMP. If only one department of an organization is affected, note that department.
Revision Date	Date that identifies when EMPs are modified or updated.
EMP Number	Number will be assigned by the EMS Manager.
Aspect	The significant aspect (e.g. energy use, chemical usage).
Objective	Focusing on the impacts related to this significant aspect, state the goal. What is it you want to achieve? Use action words (e.g., reduce, improve, control).
Target	State "how much and by when." The target is the performance element and should be quantitative and measurable.
Category	The categories identify and help to focus the EMP. The definitions of these categories are: <ul style="list-style-type: none"> <li>• Improve: improve the performance in this area</li> <li>• Control: current environmental controls are sufficient, but EMP objective is to maintain and strengthen the level of control</li> <li>• Study: the issue or area has been designated as significant, but historic or baseline data must be studied and compiled to determine the direction of future action</li> </ul>
Strategy	In this section, describe the overall approach to the problem. Some of the questions to be addressed include: <ul style="list-style-type: none"> <li>• How much has or has not been already been accomplished in this area?</li> <li>• Why is this important? Are there relevant drivers (e.g., regulations, directives, public pressure)?</li> <li>• What are the impacts to be addressed in this EMP?</li> </ul>
Actions	List the specific actions to be taken to achieve the objective and target. List the action and identify the responsible parties and dates by which the actions should be accomplished.
Metrics	Metrics are the Environmental Performance Indicators, how you measure the accomplishments. List the specific, quantifiable measurements or metrics (e.g., percent of employees trained, kilowatt hours saved, tons of waste diverted, gallons of material).
Comments	Add details to support changes to any of the fields on the form.
EMP Closure Summary	After the EMP and all actions within the EMP are complete, a concise description of the EMP's ability to achieve its objective and target should be provided.