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**Productivity and Fuel Reduction Study  
Initiated in May 2008  
60 day Status Report June 2008**

**Mission Statement:**

Review Maintenance Operations activities to ensure maximum fuel efficiency, explore areas for fuel usage reduction, and study activities that can be improved in the areas of resources utilization and productivity.

**List Subcommittee Members here:**

**PDOT Representatives**

Eric Peterson - Chair  
Mike Boyle  
Jim Hosmer  
Jill Jacobsen

Pete Schillaci  
Larry Stevens  
Rod Yoder

**Fleet Representatives**

John Hunt  
Don Taylor

**Committee Goals**

- 1) Fuel consumption
  - a) To review current practices in fuel consumption – **collecting mpg data from new fueling system**
  - b) To identify methods to reduce fuel in our operations – **implemented pool vehicle program with low fuel consumption vehicles reducing the periodic use of high fuel consumption vehicles**
  - c) Review past and current policies and procedures that have been implemented to reduce fuel – **editing and making changes to idling policy for city draft review and implementation**
  - d) Review field practices in regards towards fuel reduction and policy implementation – **currently under study**
  - e) To seek input/feedback from operational staff on recommended area's of fuel savings – **input is incoming, performed in house review study on past extended/altered 4/10 work days to reduce fuel consumption by employee's and city operations - under further consideration**
  - f) Review current equipment specifications and equipment purchasing practices to establish improved selection processes for equipment with less fuel consumption
  
- 2) Productivity assessment
  - a) To review current practices and historic recommendations
  - b) Identify activities that would benefit from additional analysis
  - c) Review designated activities in operations (Planning Standards) **Cold milling standard field changes. Standard of 22 staff reduced to 15/17 staff = 21% +/- reduction in labor, further analysis needed for production yield and equipment application – next review cycle.**
  
- 3) Implementation
  - a) To develop an education and action plan to implement recommendations
  - b) Develop a two stage review process that categorizes action items into two categories:
    - i) Short Term – Immediate action items – **see attached updated 60 day review**
    - ii) Long Term – action items needing further refinement before implementation

**Productivity and Fuel Reduction Study  
June/July 2008 – Status Report**

30 Days May 21 <sup>st</sup> – June 11 <sup>th</sup> , 2008	60 Days June 11 <sup>th</sup> – July 9 <sup>th</sup> , 2008	90 Days July 9 <sup>th</sup> – August 6 <sup>th</sup> , 2008
<p align="center"><b>Meetings</b></p> <p><u>May 21<sup>st</sup></u></p> <ul style="list-style-type: none"> <li>Developed mission &amp; action plan</li> <li>Discussed previous work in these area</li> <li>Fleet's "Idle Policy" – review draft</li> <li>Short &amp; long term solutions</li> </ul> <p><u>May 28<sup>th</sup></u></p> <ul style="list-style-type: none"> <li>Reviewed outline of report</li> <li>Developed plan to review Planning Standards – selected key activities</li> <li>Discussed fuel usage by vehicle class</li> <li>Discussed studies / rpts by other agencies</li> </ul>	<p align="center"><b>Meetings</b></p> <p><u>June 11, 19 and July 9<sup>st</sup></u></p> <ul style="list-style-type: none"> <li>Reviewed fleet approach to equipment change out for more fuel efficient equipment</li> <li>Reviewed City of Seattle and Fleet idling policy draft, made changes.</li> <li>Next meeting - finish draft for distribution</li> <li>Discussed fuel usage by vehicle class</li> <li>Developed and conducted field review of major activity as productivity screening pilot</li> </ul>	
<p align="center"><b>Productivity Assessment</b></p> <ul style="list-style-type: none"> <li>Planning Standard Analysis</li> <li>Develop a standardized form</li> <li>Analyze: <ul style="list-style-type: none"> <li>Cold Milling Major – Org 55</li> <li>Resurfacing Paving – Org 55</li> <li>Leaf Removal – Districts – Org 62</li> <li>Leaf Removal – Depots – Org 62</li> </ul> </li> </ul> <p>Org 55 – 29 standards Org 62 – 38 standards</p>	<p align="center"><b>Productivity Assessment</b></p> <ul style="list-style-type: none"> <li>Conducted field review and implemented reduced crew size for major cold milling Planning Standard - 22 crew size.</li> <li>Reduced crew size from standard 22 to 15 /17, an average labor cost reduction of 21% +/- from planning standard</li> <li>Further analysis needed for production rate yield and equipment application</li> </ul>	
<p align="center"><b>Fuel Reduction Assessment</b></p> <p>Retrieve data &amp; present in graphical form:</p> <ul style="list-style-type: none"> <li>Fuel consumption by type &amp; # of vehicles</li> <li>Fuel usage / mileage by classification</li> <li>Review Fleet Idling draft policy -2003</li> <li>Review equipment selection process to target equipment that uses less fuel</li> <li>Assess current equipment inventory and target replacement (better mileage vehicles)</li> </ul>	<p align="center"><b>Fuel Reduction Assessment</b></p> <p>Retrieved data by equipment class for fuel consumption, analyzing data generated from new fueling program:</p> <ul style="list-style-type: none"> <li>Fuel consumption by type &amp; # of vehicles</li> <li>Trading in high fuel usage vehicles for i.e. Ford Focus's. Conducted field fuel study. Yield = 25-27 mpg vs. 10/12 +/- mpg</li> <li>Implemented a pool vehicle model using more fuel efficient vehicles (Ford Focus) and eliminated the use of higher consumption vehicles for routine trips</li> <li>Next field test, Prius (auto) and 3 stage equipped loader for Albina yard use.</li> <li>Reviewing extended day shifts as an option to reduce fuel i.e. 4/10's days</li> </ul>	