

August 28, 2014

TO: Members of the MAG Management Committee

FROM: Teri Kennedy, Transportation Improvement Program Manager

SUBJECT: CALL FOR PROJECTS: MAG FEDERAL FUNDS

The Maricopa Association of Governments (MAG) is accepting applications for PM-10 Certified Street Sweepers for FY 2015 in the PM-10 nonattainment areas of the MAG planning region (map attached). Congestion Mitigation and Air Quality Improvement (CMAQ) funding has been allocated for this Call For Projects.

A Pre-Application Workshop will be held on **Tuesday, September 9, 2014, 10:00 a.m. - 11:00 a.m.** at the MAG Offices, 302 North 1<sup>st</sup> Avenue, Suite 200 – Chaparral Room, to discuss and explain the applications. It is suggested that all potential applicant agencies send at least one representative to attend this workshop. Presentation information and a question and answer session will be provided.

Additionally, an Open Working Group with staff assistance for agencies completing applications will available on **Tuesday, September 23, 2014, from 3:00 p.m. - 4:00 p.m.** at the MAG Offices, 302 North 1<sup>st</sup> Avenue, Suite 200 – Chaparral Room, to assist those agencies needing one on one, and small group assistance with completing applications. It is suggested that potential applicant agencies send a representative to attend this working group if application assistance is needed. No formal presentations will be provided.

Spreadsheet applications (in Microsoft Excel format) may be downloaded from the MAG website at <http://www.azmag.gov/Transportation/ModalApplications.asp>. The completed spreadsheet applications and signed, completed, printed versions of the applications are due at the MAG Offices, 302 North 1<sup>st</sup> Avenue, Suite 300, Phoenix, AZ, 85003, **by Tuesday, September 30, 2014, by 10:00 a.m. Late applications will not be accepted.**

Funding levels for the FY 2015 PM-10 Certified Street Sweepers are yet to be finalized due to the federal surface transportation act, MAP-21, expiring on September 30, 2014. It is anticipated that the federal government will enact a continuing resolution where the funding level will be close to current projected apportionments for the CMAQ program. MAG is estimating that \$1,404,238 of CMAQ funding will be available for FY 2015 PM-10 Certified Street Sweepers.

The application programming schedule is attached. For additional information, please contact either Stephen Tate [state@azmag.gov](mailto:state@azmag.gov), or Dean Giles [dgiles@azmag.gov](mailto:dgiles@azmag.gov) at (602) 254-6300.

cc: MAG Transportation Review Committee  
MAG Air Quality Technical Advisory Committee  
MAG Intergovernmental Representatives

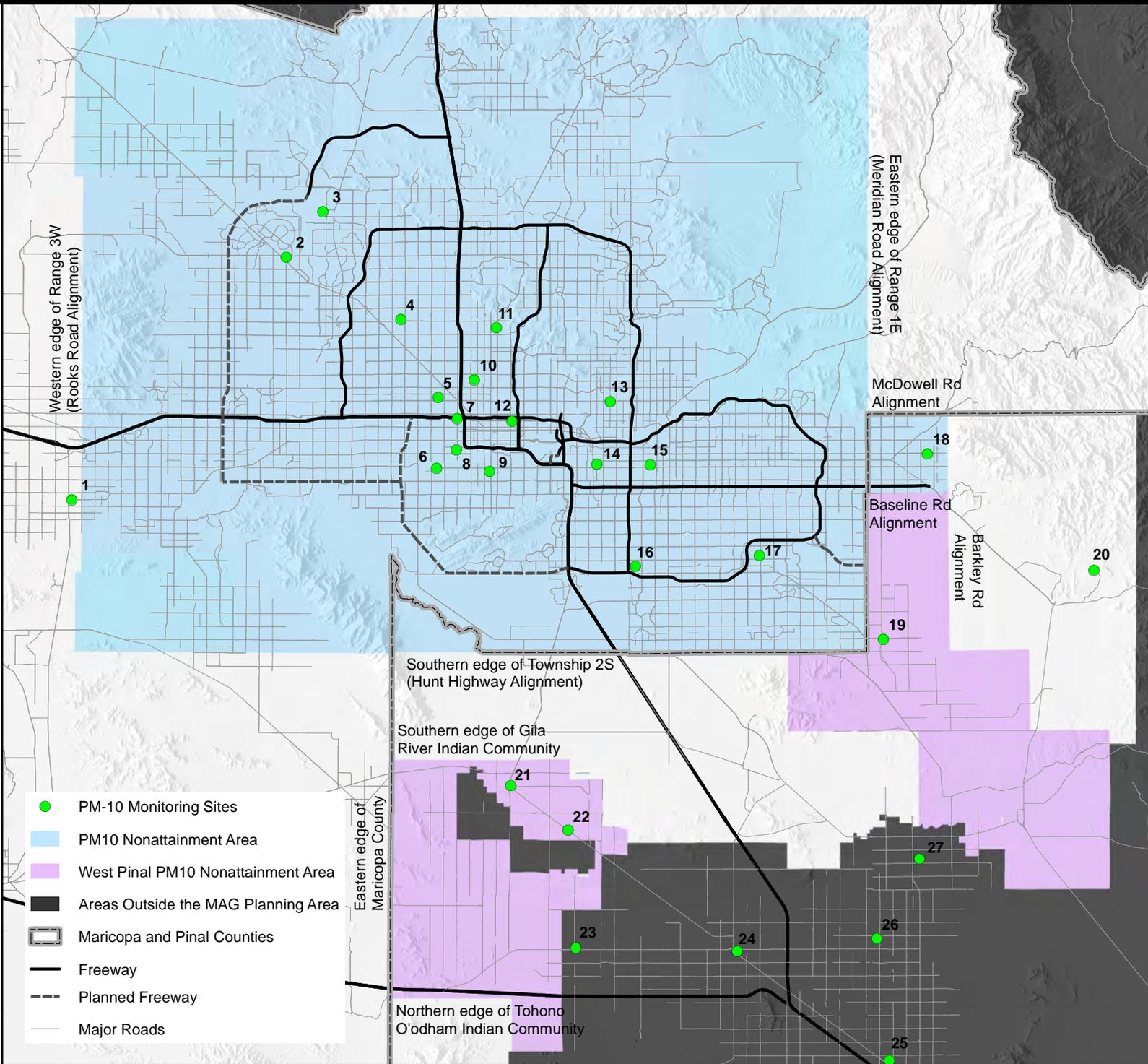
MAG Public Works Directors  
MAG Street Committee  
ADOT Local Governments Section

<b>FY2015 CMAQ - Competitive Federal Fund Programming for PM-10 Nonattainment Areas: PM-10 Certified Street Sweepers</b>		
<b>2014</b>		
July	1	Begin State Fiscal Year (FY) 2015
August	28	<b>Notice of Funding released.</b>
	28	Federal Fund Project Applications available for PM-10 Certified Street Sweepers - FY2015.
September	9	<b>Pre-Application Workshop, Overview and Assistance Meeting:</b> 10:00 a.m. - 11:00 a.m. MAG Offices, Chaparral Meeting Room, Phoenix, AZ. Presentation information provided.
	23	<b>Open Working Group, Application Assistance:</b> 3:00 p.m. - 4:00 p.m. MAG Offices, Chaparral Meeting Room, Phoenix, AZ. Small Group and one on one application assistance.
	30	<b>10:00 a.m. - Due Date and Time, signed Project Applications due to MAG. Late Applications will not be accepted.</b>
October	1	Federal Fiscal Year (FFY) 2015 begins.
	2	MAG Staff review for completeness.
	3	5:00 pm Application submittal packets posted to website.
	14	<b>Street Committee:</b> Review and recommend applications for completeness and reasonable data. Then forward to AQTAC (follows A schedule), or may request application modifications if needed ( <i>follow Schedule B</i> ).
	28	Modifications to project applications due to MAG. 5:00 P.M. (if needed, <i>follow Schedule B</i> )
November	23	Schedule A: <b>AQ TAC:</b> Review and recommend a prioritized list of PM-10 Certified Street Sweepers for FY 2015 CMAQ funding.
	5	Schedule A: <b>Management Committee:</b> May recommend a prioritized list of PM-10 Certified Street Sweepers for CMAQ FY2015 funding.
December	11	<i>Schedule B (if needed):</i> Street Committee: Review and recommend modifications to applications.
	3	Schedule A: <b>Regional Council:</b> May approve a prioritized list of PM-10 Certified Street Sweepers for CMAQ FY2015 funding.
January	4	<i>Schedule B (if needed):</i> AQ TAC: Review and recommend a prioritized list of PM-10 Certified Street Sweepers for FY 2015 CMAQ funding.
	14	<i>Schedule B (if needed):</i> <b>Management Committee:</b> May recommend/approve a prioritized list of PM-10 Certified Street Sweepers for CMAQ FY2015 funding.
<b>2015</b>		
January	28	<i>Schedule B (if needed):</i> <b>Regional Council:</b> May approve of a prioritized list of PM-10 Certified Street Sweepers for CMAQ FY2015 funding.

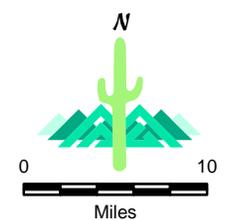
*Applications for FY2015 Street sweepers in both Maricopa and Pinal Counties;  
limited to all PM-10 nonattainment areas in the MAG Planning boundaries.*

***Schedule is subject to change, updated information will be posted for each committee process.***

# PM-10 Nonattainment Area Boundary Map with Monitor Locations for Maricopa and Pinal Counties, Arizona



#	Monitor Name
1	Buckeye
2	Dysart
3	Zuni Hills
4	Glendale
5	West Phoenix
6	West 43rd Avenue
7	Greenwood
8	Durango Complex
9	South Phoenix
10	JLG Supersite
11	North Phoenix
12	Central Phoenix
13	South Scottsdale
14	Tempe
15	Mesa
16	West Chandler
17	Higley
18	Apache Junction Fire Station
19	Combs School
20	Queen Valley (City of Maricopa County Complex
21	Cowtown Road
22	Stanfield County Complex
23	Casa Grande Downtown
24	Eloy County Complex
25	
26	Pinal County Housing Complex
27	Coolidge Maintenance Yard



While every effort has been made to ensure the accuracy of this information, the Maricopa Association of Governments makes no warranty, expressed or implied, as to its accuracy and expressly disclaims liability for the accuracy thereof.

Source: U.S. Environmental Protection Agency  
Date: October 2013

August 28, 2014

TO: Members of the MAG Management Committee

FROM: Dean Giles, Air Quality Planning Program Specialist

SUBJECT: PM-10 CERTIFIED STREET SWEEPER PROJECTS FOR FY 2015 CMAQ FUNDING

The Maricopa Association of Governments is soliciting PM-10 Certified Street Sweeper Projects for FY 2015 federal Congestion Mitigation and Air Quality Improvement (CMAQ) funding in the Maricopa County PM-10 and West Pinal PM-10 nonattainment areas from member agencies. The purchase of PM-10 certified street sweeper projects supports the measure "PM-10 Efficient Street Sweepers" in the Revised MAG 1999 Serious Area Particulate Plan for PM-10 for the Maricopa County Nonattainment Area. In addition, the MAG 2012 Five Percent Plan for PM-10 for the Maricopa County Nonattainment Area includes PM-10 Certified Street Sweepers. The purpose of the PM-10 certified street sweeper program is to reduce particulate emissions reentrained by vehicles traveling on paved roads.

Member agencies are invited to attend a meeting that will include a review of the application form on September 9, 2014, from 10:00 to 11:00 a.m. at the MAG Offices. The application form and materials (attached) and additional details about the meeting are also available at <http://www.azmag.gov/Transportation/ModalApplications.asp>. Signed project applications for PM-10 Certified Street Sweeper Projects for FY 2015 CMAQ funding are due to MAG by 10:00 a.m., on September 30, 2014. Late applications will not be accepted.

The FY 2015 Unified Planning Work Program and FY 2014-2018 MAG Transportation Improvement Program, identify \$1,404,238 in CMAQ funding to purchase PM-10 Certified Street Sweepers. A minimum local cash match of 5.7 percent on the CMAQ eligible portion of the project is required.

Project requests should include PM-10 Certified Street Sweepers which meet South Coast Air Quality Management District Rule 1186 certification standards. The list of Rule 1186 Certified Street Sweepers, dated August 30, 2012, is provided. Please attach a detailed price summary from the vendor that itemizes the equipment features for the proposed sweeper project. Additional costs for equipment beyond the specifications necessary for compliance with Rule 1186-certification are not eligible for reimbursement. Examples of ineligible equipment are attached. A separate application should be completed for each PM-10 certified street sweeper requested.

MAG staff will estimate the emission reductions for each sweeper project in accordance with federal CMAQ guidance, and cost-effectiveness based on the amount of CMAQ funding requested. Methods

contained in the MAG Methodologies for Evaluating Congestion Mitigation and Air Quality Improvement Projects, September 30, 2011, will be used to calculate the emissions reduction and cost-effectiveness. The cost-effectiveness for each sweeper project will be used to rank order the eligible candidates for CMAQ funding.

In general, the methodology estimates air quality benefits from PM-10 certified street sweepers based on the reduction in reentrained dust emitted from vehicles traveling on the roadway. PM-10 certified street sweepers may be eligible for CMAQ funding if they replace a noncertified sweeper, replace an older certified street sweeper (based on MAG replacement policy), increase the frequency of sweeping, and/or expand the area swept in the PM-10 nonattainment area.

The MAG Street Committee will initially review the project applications for data completeness in October 2014. Any additional data requested at the first Street Committee meeting will be provided at a second Street Committee meeting tentatively scheduled for November 2014. On October 23, 2014, the MAG Air Quality Technical Advisory Committee may make a recommendation to forward a ranking of the sweeper projects to the MAG Management Committee. The recommendation may be considered by the MAG Management Committee in November 2014 and the MAG Regional Council in December 2014. It is anticipated that the project ranking would be retained for any additional FY 2015 CMAQ funds that may become available to the region.

After Regional Council approval of funded projects, MAG will issue a formal notification to proceed with the purchase of the street sweeper in a letter to the project sponsor. If approved for a sweeper, MAG is requesting that the street sweeper be purchased and reimbursement be requested by the agency within one year from the date of the MAG letter. It is important to note that the member agencies comply with the ADOT Federal Property Management Standards (attached) for PM-10 certified street sweepers purchased with CMAQ funds. Also, the Federal Highway Administration has advised MAG that the procurement of CMAQ funded street sweepers should proceed after funding has been authorized by the MAG Regional Council.

If you have any questions, please contact me at (602) 254-6300.

#### Attachments

cc: Transportation Review Committee  
Air Quality Technical Advisory Committee  
Intergovernmental Representatives  
Street Committee  
Public Works Directors

**PM-10 CERTIFIED STREET SWEEPER APPLICATION  
CMAQ Funding Available for Federal Fiscal Year 2015**

**General Instructions:**

This form is to be used to request federal Congestion Mitigation and Air Quality (CMAQ) funding available through the Maricopa Association of Governments (MAG) for PM-10 certified street sweepers. An estimated \$1,404,238 in FY 2015 CMAQ funding is available regionwide.

This application form includes: Part A - Contact Information, Part B - Cost and Funding Information, Part C - Methodology, Part D - Supplemental Information, Part E - Signature, and Part F - Checklist (These 6 parts are in one tab). Separate tabs are provided for Attachment 1 - list of eligible street sweepers for CMAQ reimbursement, and Attachment 2 - list of example equipment not eligible for CMAQ reimbursement. Alternative application forms are available upon request.

**Deadlines and Transmittal Instructions:**

**The due date and time for project applications to be submitted to MAG is Tuesday, September 30, 2014, by 10:00 a.m.**

**Member agencies are to:**

**1) Transmit the application and all attachments electronically, and**

To transmit the application electronically, please save the excel file, and then send the application and all attachments to Teri Kennedy, Transportation Programming Manager. Please send graphic attachments in PDF form. Click cell below to send e-mail.

<mailto:tkennedy@azmag.gov>

**2) Submit two printed, signed, and complete applications to MAG.**

To submit two printed, signed, and complete applications to MAG, the applicant can mail at MAG offices by Tuesday, September 30, 2014, by 10:00 a.m. or drop off application to:

Maricopa Association of Governments  
ATTN: Teri Kennedy,  
302 N. 1st Avenue, Suite #300,  
Phoenix, AZ 85003

Or, the applicant can scan a printed and signed application and transmit it via e-mail or fax to: [tkennedy@azmag.gov](mailto:tkennedy@azmag.gov) or 602.254.6490 by Tuesday, September 30, 2014, by 10:00 a.m. If the applicant is transmitting a scanned, printed, and signed application via e-mail or fax, the applicant will mail or drop off the original printed application by Tuesday, September 30, 2014, by 10:00 a.m.

**Application Workshops and Open Working Group Meeting Schedule\***

Tuesday, September 9th, 2014 from 10:00-11:00 AM	PM-10 Street Sweeper Pre-Application Workshop, Overview and Assistance meeting
Tuesday, September 23rd, 2014 from 3:00-4:00 PM	Open Working Group, FY2015 Application Assistance for PM-10 Street Sweeper Applications

\* All meetings will be held in the Chaparral Room on the 2nd Floor of the MAG Offices at 302 North 1st Ave, Phoenix, Arizona 85003

If member agencies need additional information or have questions, they should contact Dean Giles, Teri Kennedy, or Stephen Tate at (602) 254-6300; or contact them by e-mail at the following addresses:

- <mailto:dgiles@azmag.gov>
- <mailto:tkennedy@azmag.gov>
- <mailto:state@azmag.gov>

**PM-10 CERTIFIED STREET SWEEPER APPLICATION  
CMAQ Funding Available for Federal Fiscal Year 2015**

**All information is required.**

**PART A - CONTACT INFORMATION**

**Contact Information**

1. Agency Name (Please select one)	
2. Name:	
3. Phone:	
4. E-Mail:	
5. Mailing Address:	

**PART B - FUNDING INFORMATION**

6. Please attach a detailed price summary for the proposed equipment from the vendor. Additional costs for optional equipment beyond the specifications necessary for compliance with Rule 1186-certification are not eligible for reimbursement.	Please attach the detailed price summary when submitting and transmitting application.		
7. Funding Information	<b>Amount</b>		
(a) Total Cost of Sweeper			
(b) Total Cost Eligible for Reimbursement ( See the PDF file Rule 1186 Sweepers included in the e-mail transmittal)			
(c) <u>Costs not eligible for reimbursement. The Local Agency is responsible for these costs. = 7a - 7b ( See Attachment 2 for list of example ineligible equipment for CMAQ reimbursement )</u>			
8. Reimbursement Information	<b>Amount</b>	<b>Funding Type</b>	<b>Share of Eligible Cost (See #7)</b>
(a) Federal Share of Total Cost Eligible for Reimbursement (Cannot be more than 94.3% of Total Eligible Cost for Reimbursement as listed in 7b) = 7b * 94.3%	\$0	CMAQ	The total cost in question 7b is \$0
(b) Local Share of Total Cost Eligible for Reimbursement (Cannot be less than 5.7% of Total Cost Eligible for Reimbursement as listed in #7b) = 7b *5.7%	\$0	Local	The total cost in question 7b is \$0
9. Project Funding Based on Information from #7 & #8	<b>Federal Share = 8a</b>	<b>Local Share = 7c + 8b</b>	<b>Total Cost of Sweeper</b>
	\$0	\$0	\$0

PM-10 CERTIFIED STREET SWEEPER APPLICATION CMAQ Funding Available for Federal Fiscal Year 2015				
<b>PART C: METHODOLOGY INFORMATION</b>				
<b>Information in Part C is used to calculate a CMAQ cost effectiveness score for the requested street sweeper.</b>				
10. The requested PM-10 certified street sweeper will (Select Yes or No for all that apply):				
(a) Replace a noncertified street sweeper				
(b) Expand service area				
(c) Increase sweeping frequency				
(d) Replace an older certified street sweeper				
11. For the requested sweeper, please provide the information for roadway types in the table below for:	<b>Arterial Street</b>	<b>Collector Street</b>	<b>Residential Street</b>	<b>Other</b>
(a) Sweeping cycle length (measured in days between sweepings)				
(b) Lane miles to be swept per cycle				
(c) Average weekday traffic per lane being swept				
(d) If values were entered in the "Other" column, please specify what "Other" means:				
12. If "expand service area" was "yes" in question #10, please provide the following information for the roadway types in the table below:	<b>Arterial Street</b>	<b>Collector Street</b>	<b>Residential Street</b>	<b>Other</b>
- Previously unswept lane miles to be swept by the new sweeper:				
If values were entered in the "Other" column, please specify what "Other" means:				
13. If "increase sweeping frequency" was "yes" in question #10, please provide the following information for the roadway types in the table below:	<b>Arterial Street</b>	<b>Collector Street</b>	<b>Residential Street</b>	<b>Other</b>
- Previous cycle length (measured in days between sweepings):				
If values were entered in the "Other" column, please specify what "Other" means:				
14. If "replace an older PM-10 certified street sweeper" was "yes" in question #10, please provide information in the following boxes: (Note that at least one of a, b, or c must exceed useful life standards.)				
(a) Number of hours in service of the sweeper that is being replaced		Useful life standard: 12,000 hours		
(b) The month and year that the older certified sweeper was put into service (e.g. 4/2001)		Useful life standard: 8 years		
(c) Number of miles (including deadhead miles) on the sweeper that is being replaced		Useful life standard: 96,000 miles		
(d) An estimate of the percent of time the older sweeper was out of service in the past year due to repairs and maintenance issues				
(e) Please explain why the older sweeper was out of service.				
15. Will the requested certified street sweeper be used to sweep streets within 4 miles of a PM-10 monitor? If yes, please specify which monitor. <a href="#">Link to MAG webpage for PM-10 Map</a>				

**PM-10 CERTIFIED STREET SWEEPER APPLICATION  
CMAQ Funding Available for Federal Fiscal Year 2015**

**Part D - SUPPLEMENTAL INFORMATION:**

16. Have local resources been committed for staff or equipment to support the PM-10 certified street sweeper? (Please select Yes or No) If yes, please provide details (e.g., number, type and cost of employees, equipment, and maintenance).				
17. Please indicate in what geographical area(s) the requested certified street sweeper will operate (e.g., Glendale Ave. to Thomas Rd.; 19th Ave. to Central Ave).				
18. Provide a map of the area to be swept by the proposed sweeper.	Please attach a PDF when submitting and transmitting application. If available, please submit a GIS shape showing swept area.			
19. Please indicate if your agency would be willing to provide MAG with additional information on the requested PM-10 certified street sweeper. (Please select Yes or No)				
20. Please indicate the total number of sweepers currently owned and operated by your agency for sweeping streets: (a) PM-10 certified: (b) Noncertified:	<table border="1"> <tr><td></td></tr> <tr><td></td></tr> </table>			

**PART E - SIGNATURE PAGE**

**As the jurisdiction's manager/administrator or designated representative, I certify that the information contained in this application is accurate and complete and that the local funds for this project will be included in the sponsoring MAG member agency's local current CIP/TIP or budget document if the project is selected for federal funding.**

Signature:
Name:
Title:
Date:

**PART F - CHECK LIST (OPTIONAL)**

This check list is optional, but is included to facilitate applicant review and verification that all required fields in the form have been completed

Part A - Fields 1- 5 are complete	No	
Part B - Fields 6-9 are complete	No	
Part C - Fields 10-14 are complete	No	
Part D - Fields 15-20 are complete	No	

**TRANSMITTAL INSTRUCTIONS and SCHEDULE**

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**Member agencies are to:**

**1) Transmit the application and all attachments electronically, and**

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[mailto: tkennedy@azmag.gov](mailto:tkennedy@azmag.gov)

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Maricopa Association of Governments  
 ATTN: Teri Kennedy,  
 302 N. 1st Avenue, Suite #300,  
 Phoenix, AZ 85003.

Or, the applicant can scan a printed and signed application and transmit it via e-mail or fax to: tkennedy@azmag.gov or 602.254.6300 by Tuesday, September 30, 2014, by 10:00 a.m. If the applicant is transmitting a scanned, printed, and signed application via e-mail or fax, the applicant will mail or drop off the original printed application by Tuesday, September 30, 2014, by 10:00 a.m.

**Application Workshops and Open Working Group Meeting Schedule\***

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\* All meetings will be held on the 2nd Floor of the MAG Offices at 302 North 1st Ave, Suite 300, Phoenix, Arizona 85003

## **ATTACHMENT 2**

### **EXAMPLES OF ADDITIONAL STREET SWEEPER EQUIPMENT NOT ELIGIBLE FOR REIMBURSEMENT**

1. Automatic lubrication system (grease jockey system)
2. Camera/monitor
3. Hopper access step
4. Drag shoe carbide
5. Hydrant hopper wash down system
6. Conveyer flush kit with hydrant
7. 1000 pounds per square inch (PSI) wand
8. Dual HiBack air-suspended seats
9. Hand hose

# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4182  
(909) 396-2000 • [www.aqmd.gov](http://www.aqmd.gov)

## CERTIFIED STREET SWEEPERS UNDER SCAQMD RULE 1186 (AS OF AUGUST 30, 2012\*)

SCAQMD Rule 1186 requires local governments within the South Coast Air Quality Management District (see Figure below) to procure certified street sweepers for new equipment purchases or new street sweeping contracts made after January 1, 2000 (there are no retrofit requirements under Rule 1186).

Various SCAQMD regulations also require procurement of certified street sweepers to implement specific rule requirements. This list of equipment is updated periodically based on certifications test results and in response to new information.

The SCAQMD Governing Board adopted Rule 1186 street sweeper testing and certification procedures in September of 1999. Enclosed is a list of equipment that has met the Rule 1186 certification standards. (The equipment may either be new or upgraded to meet certification specifications). Questions on equipment capabilities and options should be directed to your local distributor and/or the manufacturer. Questions regarding the Rule requirements can be directed to Mike Laybourn, Air Quality Specialist, at (909) 396-3066 or [mlaybourn@aqmd.gov](mailto:mlaybourn@aqmd.gov).



***Cleaning the air that we breathe...***

\* Additional sweepers may be certified based on future tests. You can call 1 (800) CUT-SMOG or visit [www.aqmd.gov](http://www.aqmd.gov) for the most recent list of Rule 1186 certified equipment.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)**

**RULE 1186 CERTIFIED\* STREET SWEEPERS AS OF AUGUST 30, 2012**



THE FOLLOWING IS A LIST OF STREET SWEEPING EQUIPMENT THAT HAS CURRENTLY BEEN CERTIFIED FOR SCAQMD RULE 1186. ALL CERTIFIED EQUIPMENT MUST BE OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. FUTURE TESTING MAY QUALIFY ADDITIONAL EQUIPMENT. CALL 1 (800) CUT-SMOG FOR THE CURRENT LIST.

MAKE*	MODEL*	DUST CONTROL SYSTEMS*
CHALLENGER MANUFACTURING	CHALLENGER	<ul style="list-style-type: none"> <li>• THREE (3) 0.03 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM</li> <li>• FOUR (4) 0.03 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED BETWEEN THE MAIN BROOM AND THE CONVEYOR</li> <li>• WATER PUMP TO PROVIDE 25 POUNDS PER SQUARE INCH WATER PRESSURE DURING OPERATION; MAXIMUM OF 45 POUNDS PER SQUARE INCH</li> </ul>
ELGIN	AIR CUB (LX/DX) CROSSWIND FURY	<ul style="list-style-type: none"> <li>• DIAMOND GRID DUST SEPARATION SCREEN</li> <li>• LOUVERED CENTRIFUGAL DUST SEPARATOR</li> <li>• ONE (1) 0.06 INCH DIAMETER ORIFICE NOZZLE CENTRALLY LOCATED ABOVE FAN INLET IN THE HOPPER</li> <li>• TWO (2) 0.047 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE THE SUCTION TUBE</li> <li>• FOUR (4) 0.051 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM</li> <li>• PUMP TO PROVIDE 40 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>
ELGIN	CROSSWIND J	<ul style="list-style-type: none"> <li>• DIAMOND GRID DUST SEPARATION SCREEN</li> <li>• S-TRAP CENTRIFUGAL SEPARATOR</li> <li>• FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE HOPPER</li> <li>• THREE (3) 0.059 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE SUCTION TUBE</li> <li>• THREE (3) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM</li> <li>• WATER PUMP TO PROVIDE 80 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>

\* In order to ensure compliance with Rule 1186 requirements, all certified equipment must be operated and maintained in accordance with the manufacturer's specifications. End users are responsible for ensuring that the dust control systems are in place for each certified sweeper. Note: The make and model of the sweeper must have the dust control system(s) specified above to be in compliance. (Standard or older models may not have all the systems). Please contact the manufacturer if you would like to ensure that your sweeper(s) are Rule 1186 compliant.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)**

**RULE 1186 CERTIFIED\* STREET SWEEPERS AS OF AUGUST 30, 2012**



THE FOLLOWING IS A LIST OF STREET SWEEPING EQUIPMENT THAT HAS CURRENTLY BEEN CERTIFIED FOR SCAQMD RULE 1186. ALL CERTIFIED EQUIPMENT MUST BE OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. FUTURE TESTING MAY QUALIFY ADDITIONAL EQUIPMENT. CALL 1 (800) CUT-SMOG FOR THE CURRENT LIST.

MAKE*	MODEL*	DUST CONTROL SYSTEMS*
ELGIN	PELICAN P & S PELICAN SE (WET SUPPRESSION)	<ul style="list-style-type: none"> <li>• FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED BETWEEN THE MAIN BROOM AND THE CONVEYOR</li> <li>• TWO (2) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH GUTTER BROOM</li> <li>• WATER PUMP TO PROVIDE 80 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>
ELGIN	PELICAN P (WATERLESS SUPPRESSION)	<ul style="list-style-type: none"> <li>• GUTTER/MAIN BROOM FULLY ENCLOSED SHROUD SYSTEM</li> <li>• TWO CENTRIFUGAL DUST EVACUATION FANS</li> <li>• SYNTHETIC MULTI-POCKET FILTER WITH HYDRAULIC SHAKER FOR DUST REMOVAL</li> </ul>
ELGIN	PELICAN P (COMBINATION)	<ul style="list-style-type: none"> <li>• ALL OF THE FEATURES OF THE WET AND WATERLESS SUPPRESSION PELICAN P STREET SWEEPER WITH THE EQUIPMENT OPERATED IN EITHER THE WET OR WATERLESS MODE</li> </ul>
ELGIN	EAGLE E EAGLE F EAGLE (CNG) BROOM BEAR ROAD WIZARD	<ul style="list-style-type: none"> <li>• FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED BETWEEN THE MAIN BROOM AND THE CONVEYOR</li> <li>• THREE (3) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH GUTTER BROOM</li> <li>• WATER PUMP TO PROVIDE 80 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>
ELGIN	EAGLE F (WATERLESS)	<ul style="list-style-type: none"> <li>• GUTTER/MAIN BROOM FULLY ENCLOSED SHROUD SYSTEM</li> <li>• CENTRIFUGAL DUST EVACUATION FAN</li> <li>• SYNTHETIC MULTI-POCKET FILTER WITH HYDRAULIC SHAKER FOR DUST CONTROL</li> </ul>
ELGIN	EAGLE F (COMBINATION)	<ul style="list-style-type: none"> <li>• ALL OF THE FEATURES OF THE WET AND WATERLESS EAGLE F STREET SWEEPER WITH THE EQUIPMENT OPERATED IN EITHER THE WET OR WATERLESS MODE</li> </ul>

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**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)**

**RULE 1186 CERTIFIED\* STREET SWEEPERS AS OF AUGUST 30, 2012**



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MAKE*	MODEL*	DUST CONTROL SYSTEMS*
ELGIN	GEOVAC	<ul style="list-style-type: none"> <li>• DIAMOND GRID DUST SEPARATION SCREEN</li> <li>• FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED IN THE HOPPER</li> <li>• TWO (2) 0.059 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE THE SUCTION TUBE</li> <li>• TWO (2) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM</li> <li>• FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES LOCATED AT THE EXTENSION BROOM</li> <li>• WATER PUMP TO PROVIDE 80 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>
ELGIN	WHIRLWIND MV	<ul style="list-style-type: none"> <li>• DIAMOND GRID DUST SEPARATION SCREEN</li> <li>• FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED IN THE HOPPER</li> <li>• TWO (2) 0.059 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE THE SUCTION TUBE</li> <li>• TWO (2) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM</li> <li>• FOUR (4) 0.60 INCH DIAMETER ORIFICE NOZZLES LOCATED AT THE EXTENSION BROOM</li> <li>• PUMP TO PROVIDE 80 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>
JOHNSTON	310	<ul style="list-style-type: none"> <li>• FOUR (4) 0.072 INCH DIAMETER ORIFICE NOZZLES LOCATED IN FRONT SPRAY BAR</li> <li>• TWO (2) 0.072 INCH DIAMETER ORIFICE NOZZLES PER EACH GUTTER BROOM</li> <li>• ONE (1) 0.026 INCH DIAMETER ORIFICE NOZZLE LOCATED IN THE FAN SUCTION HOOD</li> <li>• WATER PUMP TO PROVIDE 50 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>

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MAKE*	MODEL*	DUST CONTROL SYSTEMS*
JOHNSTON	3000 MX450 4000 4000 SDS MST 350	<ul style="list-style-type: none"> <li>• ENCLOSED ELEVATOR SYSTEM</li> <li>• STEEL OR MIXED POLYESTER MAIN PICK UP BROOM</li> <li>• ONE (1) 0.072 INCH DIAMETER ORIFICE NOZZLE PER EACH GUTTER BROOM</li> <li>• TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES PER EACH SIDE OF THE MAIN PICK UP BROOM</li> <li>• THREE (3) 0.057 INCH DIAMETER ORIFICE NOZZLES IN SPRAY BAR LOCATED BEHIND THE MAIN PICK UP BROOM</li> <li>• TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES IN SPRAY BAR LOCATED UNDERNEATH THE CAB</li> <li>• WATER PUMP TO PROVIDE 40 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>
JOHNSTON	VT605 VT610 VT605 VT650	<ul style="list-style-type: none"> <li>• TWO (2) 0.039 INCH DIAMETER ORIFICE NOZZLES PER GUTTER BROOM</li> <li>• THREE (3) 0.042 INCH DIAMETER ORIFICE NOZZLES PER SUCTION BROOM</li> <li>• THREE (3) 0.039 INCH DIAMETER ORIFICE NOZZLES PER SUCTION NOZZLE</li> <li>• MULTI-POSITION SUCTION NOZZLE TWO ARM FACILITY</li> <li>• ONE (1) 0.042 INCH DIAMETER ORIFICE NOZZLE FOR THE IMPELLER FAN</li> <li>• WATER PUMP TO PROVIDE 50 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>

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MAKE*	MODEL*	DUST CONTROL SYSTEMS*
JOHNSTON	770 CYCLONE	<ul style="list-style-type: none"> <li>• THREE (3) 0.067 INCH DIAMETER ORIFICE NOZZLES FOR GUTTER BROOMS</li> <li>• TWO (2) 0.07 INCH DIAMETER ORIFICE NOZZLES FOR CENTER CURTAIN</li> <li>• FOUR (4) 0.055 INCH DIAMETER ORIFICE NOZZLES FOR FRONT BUMPER</li> <li>• TWO (2) 0.067 INCH DIAMETER ORIFICE NOZZLES FOR FRONT CURB SPRAY</li> <li>• TWO (2) 0.07 INCH DIAMETER ORIFICE NOZZLES ON LEFT AND RIGHT SIDE OF PICK UP HEAD</li> <li>• THREE (3) 0.082 INCH DIAMETER ORIFICE NOZZLES FOR PICK UP HEAD FRONT SIDE</li> <li>• SEVEN (7) 0.079 INCH DIAMETER ORIFICE NOZZLES FOR PICK UP HEAD REAR SIDE</li> <li>• THREE (3) 0.079 INCH DIAMETER ORIFICE NOZZLES FOR WINDROW PATH</li> <li>• TWO (2) 0.045 INCH DIAMETER ORIFICE NOZZLES FOR PICK UP HEAD SUCTION</li> <li>• ONE (1) 0.079 INCH DIAMETER ORIFICE NOZZLE FOR BLOWER FAN OUTLET</li> <li>• PUMP TO PROVIDE 50 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>
NESCON	X-BROOM	<ul style="list-style-type: none"> <li>• THREE (3) 0.079 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM</li> <li>• FIVE (5) 0.079 INCH DIAMETER ORIFICE NOZZLES ACROSS FRONT BUMPER</li> <li>• FIVE (5) 0.050 INCH DIAMETER ORIFICE NOZZLES IN MAIN BROOM HOUSING</li> <li>• WATER PUMP TO PROVIDE 50 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>

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MAKE*	MODEL*	DUST CONTROL SYSTEMS*
SCHWARZE	EV-1	<ul style="list-style-type: none"> <li>• TWELVE (12) POLYESTER DRY FILTER CARTRIDGES (MAINTAINED TO ENSURE PROPER INTEGRITY)</li> <li>• FILTRATION CLEANED THREE TIMES PER MINUTE</li> <li>• FILTRATION SYSTEM ACTIVE AT ALL TIMES</li> </ul>
SCHWARZE	EV-2	<ul style="list-style-type: none"> <li>• EIGHT (8) POLYESTER DRY FILTER CARTRIDGES (MAINTAINED TO ENSURE PROPER INTEGRITY)</li> <li>• FILTRATION SYSTEM OPERATED AT ALL TIMES</li> <li>• EACH FILTER CLEANED THREE TIMES PER MINUTE</li> </ul>
SCHWARZE	DXR	<ul style="list-style-type: none"> <li>• POLYESTER DRY FILTER CARTRIDGES (MAINTAINED TO ENSURE PROPER INTEGRITY)</li> <li>• FILTRATION SYSTEM ACTIVE AT ALL TIMES</li> <li>• FILTRATION CLEANED FOUR TIMES PER MINUTE AND A HALF</li> </ul>
SCHWARZE	A4000	<ul style="list-style-type: none"> <li>• FOUR (4) 0.036 INCH DIAMETER ORIFICE NOZZLES LOCATED ON THE SWEEPING HEAD</li> <li>• TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES INSIDE HOPPER</li> <li>• TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM</li> <li>• FOUR (4) 0.036 INCH DIAMETER ORIFICE NOZZLES INSIDE HOPPER ON SPRAY BAR</li> <li>• WATER PUMP TO PROVIDE 70 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>
SCHWARZE	M5000/M6000	<ul style="list-style-type: none"> <li>• FIVE (5) 0.036 INCH DIAMETER ORIFICE NOZZLES ON MAIN BROOM</li> <li>• THREE (3) 0.036 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM</li> <li>• WATER PUMP TO PROVIDE 70 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>

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MAKE*	MODEL*	DUST CONTROL SYSTEMS*
SCHWARZE	A 7000/ A 8000/ A 9000	<ul style="list-style-type: none"> <li>• SAWTOOTH DUST SEPARATION SCREEN, SELF DUMPING DUST SEPARATOR, FAN CENTRIFUGE</li> <li>• FIVE (5) 0.036 INCH DIAMETER ORIFICE NOZZLES LOCATED ON THE SWEEPING HEAD</li> <li>• TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES LOCATED ON HEAD INTAKE TUBE</li> <li>• TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES IN RIGHT HAND GUTTER BROOM</li> <li>• FOUR (4) 0.036 INCH DIAMETER ORIFICE NOZZLES LOCATED ON HOPPER SPRAY BAR</li> <li>• WATER PUMP TO PROVIDE 70 POUNDS PER SQUARE INCH WATER PRESSURE</li> <li>• TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES IN LEFT HAND GUTTER BROOM (REQUIRED IF BOTH GUTTER BROOMS ARE USED)</li> </ul>
SCHWARZE	S348-I/ S348-LE	<ul style="list-style-type: none"> <li>• FOUR (4) 0.036 INCH DIAMETER ORIFICE NOZZLES ON HOPPER SPRAY BAR</li> <li>• TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES IN HOPPER</li> <li>• TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES ON RIGHT HAND GUTTER BROOM</li> <li>• WATER PUMP TO PROVIDE 70 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>
STEWART-AMOS	STARFIRE S-4, S-5, AND S-6	<ul style="list-style-type: none"> <li>• FOUR (4) 0.05 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED BETWEEN THE MAIN BROOM AND THE ELEVATOR</li> <li>• FOUR (4) 0.05 INCH DIAMETER ORIFICE NOZZLES LOCATED BENEATH THE FRONT BUMPER OF THE CHASSIS</li> <li>• TWO (2) 0.05 INCH DIAMETER ORIFICE NOZZLES LOCATED IN FRONT OF EACH GUTTER BROOM</li> <li>• WATER PUMP TO PROVIDE 40 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>

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MAKE*	MODEL*	DUST CONTROL SYSTEMS*
PYTHON	S2000	<ul style="list-style-type: none"> <li>• FOUR (4) 0.008 INCH DIAMETER ORIFICE NOZZLES MOUNTED ABOVE AND AHEAD OF A 36 INCH FILL DIAMETER REAR BROOM</li> <li>• WATER LINE WITH 0.02 INCH DIAMETER ORIFICE AND THREE (3) 0.06 DIAMETER OUTLETS ABOVE EACH 42 INCH DIAMETER GUTTER BROOM</li> <li>• PUMP TO PROVIDE 24 POUNDS PER SQUARE INCH WATER PRESSURE DURING OPERATION</li> </ul> <p><i>PLEASE NOTE THAT THE GUTTER AND REAR BROOM SIZES ARE DIFFERENT THAN THE STANDARD MODEL</i></p>
PYTHON	S3000	<ul style="list-style-type: none"> <li>• FOUR (4) 0.008 INCH DIAMETER ORIFICE NOZZLES MOUNTED ABOVE AND AHEAD OF REAR BROOM</li> <li>• WATER LINE WITH 0.02 INCH DIAMETER ORIFICE AND THREE (3) 0.06 DIAMETER OUTLETS ABOVE EACH GUTTER BROOM</li> <li>• PUMP TO PROVIDE 24 POUNDS PER SQUARE INCH WATER PRESSURE DURING OPERATION</li> </ul>
WAYNE SWEEPERS LLC	CENTURION	<ul style="list-style-type: none"> <li>• SEVEN (7) 0.0925 INCH DIAMETER ORIFICE NOZZLES ON SPRAY BAR UNDERNEATH THE CAB</li> <li>• TWO (2) 0.0925 INCH DIAMETER ORIFICE NOZZLES PER GUTTER BROOM</li> <li>• (GUTTER BROOMS CAN BE OPERATED WITHOUT WATER SPRAYS IF FULLY ENCLOSED SHROUD SYSTEM IS UTILIZED AND MAINTAINED PER THE MANUFACTURERS SPECIFICATIONS)</li> <li>• THREE (3) 0.0925 INCH DIAMETER ORIFICE NOZZLES ON SPRAY BAR ABOVE CONVEYOR</li> <li>• 300 GALLON WATER TANK</li> <li>• WATER PUMP TO PROVIDE MINIMUM OF SEVEN GALLONS PER MINUTE</li> <li>• SINGLE FAN VACUUM SYSTEM</li> <li>• GLAZED, POLYESTER FILTER SYSTEM (MAINTAINED TO ENSURE PROPOER INTEGRITY)</li> </ul>

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MAKE*	MODEL*	DUST CONTROL SYSTEMS*
TENNANT	SENTINEL	<ul style="list-style-type: none"> <li>• GUTTER/MAIN BROOM FULLY ENCLOSED SHROUD SYSTEM</li> <li>• DUAL FAN VACUUM SYSTEM (OPERATED AT ALL TIMES)</li> <li>• SYNTHETIC-SINGED POLYESTER FILTER (MAINTAINED TO ENSURE PROPER INTEGRITY)</li> </ul>
TENNANT	830 I/ 830 II	<ul style="list-style-type: none"> <li>• GUTTER/MAIN BROOM FULLY ENCLOSED SHROUD SYSTEM</li> <li>• DUAL FAN VACUUM SYSTEM (OPERATED AT ALL TIMES)</li> <li>• SYNTHETIC-SINGED POLYESTER FILTER (MAINTAINED TO ENSURE PROPER INTEGRITY)</li> </ul>
TYMCO	210 300 350 435	<ul style="list-style-type: none"> <li>• CYCLONIC, MULTIPASS, CENTRIFUGAL SEPARATION</li> <li>• CENTER DEBRIS DEFLECTOR ASSEMBLY PERPENDICULAR TO THE PICK UP HEAD</li> <li>• TWO (2) 0.043 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM</li> <li>• ONE (1) 0.063 INCH DIAMETER ORIFICE NOZZLE FOR EACH GUTTER BROOM</li> <li>• ONE (1) 0.063 INCH DIAMETER ORIFICE NOZZLE LOCATED IN THE HOPPER</li> <li>• ONE (1) 0.063 INCH DIAMETER ORIFICE NOZZLE LOCATED IN BLOWER HOUSING</li> <li>• WATER PUMP WITH A MINIMUM SYSTEM RELIEF VALVE SET AT 25 POUNDS PER SQUARE INCH.</li> </ul>

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MAKE*	MODEL*	DUST CONTROL SYSTEMS*
TYMCO	600 600 BAH FHD 500X	<ul style="list-style-type: none"> <li>• CYCLONIC, MULTIPASS, CENTRIFUGAL SEPARATION</li> <li>• CENTER DEBRIS DEFLECTOR ASSEMBLY PERPENDICULAR TO THE PICK UP HEAD</li> <li>• FRONT DEBRIS DEFLECTOR CURTAIN ASSEMBLY PARALLEL TO THE PICK UP HEAD</li> <li>• LOW EMISSION DUST GUARDS (ONLY APPLICABLE TO CABOVER TRUCKS)</li> <li>• THREE (3) 0.063 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM</li> <li>• TWO (2) 0.043 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM</li> <li>• ONE (1) 0.093 INCH DIAMETER ORIFICE NOZZLE LOCATED IN THE HOPPER</li> <li>• ONE (1) 0.093 INCH DIAMETER ORIFICE NOZZLE LOCATED IN BLOWER HOUSING</li> <li>• TWO (2) [MINIMUM] HOPPER BAFFLE CURTAINS</li> <li>• WATER PUMP WITH A MINIMUM SYSTEM RELIEF VALVE SET AT 25 POUNDS PER SQUARE INCH.</li> </ul>
TYMCO	DST - 4	<ul style="list-style-type: none"> <li>• CYCLONIC, MULTIPASS, CENTRIFUGAL SEPARATION</li> <li>• SELF CONTAINED MULTIPLE FILTRATION SYSTEM UTILIZING PTFE MEMBRANE FILTERS</li> <li>• TWO (2) 0.043 INCH DIAMETER ORIFICE NOZZLES FOR EACH 32 INCH DIAMETER GUTTER BROOM</li> <li>• ONE (1) 0.063 INCH DIAMETER ORIFICE NOZZLES FOR EACH 32 INCH DIAMETER GUTTER BROOM</li> <li>• ONE (1) 0.063 INCH DIAMETER ORIFICE NOZZLE LOCATED IN THE HOPPER</li> <li>• WATER PUMP WITH A MINIMUM SYSTEM RELIEF VALVE SET AT 25 POUNDS PER SQUARE INCH.</li> </ul>

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MAKE*	MODEL*	DUST CONTROL SYSTEMS*
TYMCO	DST - 6	<ul style="list-style-type: none"> <li>• CYCLONIC, MULTIPASS, CENTRIFUGAL SEPARATION</li> <li>• SELF CONTAINED MULTIPLE FILTRATION SYSTEM UTILIZING PTFE MEMBRANE FILTERS</li> <li>• THREE (3) 0.063 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM</li> <li>• TWO (2) 0.043 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM</li> <li>• ONE (1) 0.094 INCH DIAMETER ORIFICE NOZZLE LOCATED IN THE HOPPER</li> <li>• TWO (2) [MINIMUM] HOPPER BAFFLE CURTAINS</li> <li>• WATER PUMP WITH A MINIMUM SYSTEM RELIEF VALVE SET AT 25 POUNDS PER SQUARE INCH</li> </ul>
VACALL	VS10/10D, VF10 VS13/13D, VF13 VS14/14D, VF14 VS16/16D, VF16 VS20/20D, VF20	<ul style="list-style-type: none"> <li>• FOUR (4) 0.062 INCH DIAMETER ORIFICE NOZZLES LOCATED IN FRONT OF EACH 36 INCH GUTTER BROOM</li> <li>• FOUR (4) 0.062 INCH DIAMETER ORIFICE NOZZLES LOCATED IN FRONT OF THE TRANSFER BROOM</li> <li>• TEN (10) 0.125 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE THE PICK UP HEAD</li> <li>• SIX (6) 0.181 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE THE SCRUBBER COLLAR OF THE PICK UP HEAD</li> <li>• 48 INCH POWER VACUUM NOZZLE</li> <li>• MINIMUM 300 GALLON GRAVITY FEED WATER SUPPLY SYSTEM WITH WATER CONTINUOUSLY SUPPLIED TO ALL NOZZLES</li> <li>• LOW VELOCITY DUST COLLECTION AIR CHAMBER</li> <li>• MINIMUM OF SIX (6) EXPANDED METAL SCREENS</li> </ul>

\* In order to ensure compliance with Rule 1186 requirements, all certified equipment must be operated and maintained in accordance with the manufacturer's specifications. End users are responsible for ensuring that the dust control systems are in place for each certified sweeper. Note: The make and model of the sweeper must have the dust control system(s) specified above to be in compliance. (Standard or older models may not have all the systems). Please contact the manufacturer if you would like to ensure that your sweeper(s) are Rule 1186 compliant.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)**

**RULE 1186 CERTIFIED\* STREET SWEEPERS AS OF AUGUST 30, 2012**



THE FOLLOWING IS A LIST OF STREET SWEEPING EQUIPMENT THAT HAS CURRENTLY BEEN CERTIFIED FOR SCAQMD RULE 1186. ALL CERTIFIED EQUIPMENT MUST BE OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. FUTURE TESTING MAY QUALIFY ADDITIONAL EQUIPMENT. CALL 1 (800) CUT-SMOG FOR THE CURRENT LIST.

MAKE*	MODEL*	DUST CONTROL SYSTEMS*
WAYNE SWEEPERS	GLADIATOR	<ul style="list-style-type: none"> <li>• THREE (3) 0.0925 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM</li> <li>• SIX (6) 0.0925 INCH DIAMETER ORIFICE NOZZLES ACROSS FRONT BUMPER</li> <li>• FOUR (4) 0.0925 INCH DIAMETER ORIFICE NOZZLES AT THE REAR BROOM</li> <li>• WATER PUMP TO PROVIDE 60 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>
WAYNE SWEEPERS	WARRIOR	<ul style="list-style-type: none"> <li>• THREE (3) 0.0925 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM</li> <li>• SIX (6) 0.0925 INCH DIAMETER ORIFICE NOZZLES ACROSS FRONT BUMPER</li> <li>• WATER PUMP TO PROVIDE 60 POUNDS PER SQUARE INCH WATER PRESSURE</li> </ul>

\* In order to ensure compliance with Rule 1186 requirements, all certified equipment must be operated and maintained in accordance with the manufacturer's specifications. End users are responsible for ensuring that the dust control systems are in place for each certified sweeper. Note: The make and model of the sweeper must have the dust control system(s) specified above to be in compliance. (Standard or older models may not have all the systems). Please contact the manufacturer if you would like to ensure that your sweeper(s) are Rule 1186 compliant.



# ARIZONA DEPARTMENT OF TRANSPORTATION POLICIES AND PROCEDURES

## FIN-11.08 FEDERAL PROPERTY MANAGEMENT STANDARDS

Effective: October 18, 2010  
Supersedes: FIN-11.08 (1/28/2010)  
Responsible Office: Fixed Assets  
Phone: (602) 712-8028

Review: October 18, 2012  
Transmittal: 2010 - October  
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### 8.01 PURPOSE

To establish uniform standards governing the use and disposition of property acquired, in whole or in part, with federal funds or whose cost was charged to a project supported by a federal grant.

### 8.02 SCOPE

This policy applies to all recipients or subrecipients of federal funds through a pass-through entity. The policy is limited to those items whose acquisition cost is at least \$5,000 per unit.

### 8.03 DEFINITIONS

Acquisition Cost	Net invoice unit price of the property including the cost of modifications, attachments, accessories, or auxiliary apparatus necessary to make the property usable for the purpose for which it was acquired. Other charges, such as the cost of installation, transportation, taxes, professional services, duty, or protective in-transit insurance can be included or excluded from the cost in accordance with generally accepted accounting principles.
Common Rule	<u>49 CFR 18</u> , Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments, the federal regulation which governs all grants subject to this policy.
Federal Awarding Agency	Agency of the federal government that awards the grants. These agencies include, but are not limited to: A. United States Department of Transportation (DOT) <ol style="list-style-type: none"><li>1. Federal Highway Administration (FHWA)</li><li>2. Federal Transit Authority (FTA)</li><li>3. Federal Aviation Administration (FAA)</li><li>4. Federal Motor Carrier Safety Administration (FMCSA)</li><li>5. National Highway Transportation Safety Administration (NHTSA)</li><li>6. Federal Railroad Administration (FRA)</li></ol> B. United States Department of the Interior (DOI) <ol style="list-style-type: none"><li>1. Bureau of Indian Affairs (BIA)</li><li>2. Bureau of Land Management (BLM)</li></ol>

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Grant	A sum of money given by one governmental entity to some other entity for the purpose of achieving some goal or supporting some program.
Pass-through Entity	A non-federal entity that provides a federal grant to a subrecipient to carry out a federal program.
Personal Property	Property which is non-financial in nature, which has a useful life of at least one year, and which is used in operations, except real property. Personal property is further classified as one of the following: A. Tangible—having physical existence. B. Intangible—having no physical existence, such as patents, software, inventions, and copyrights.
Real Property	Land, Buildings, Improvements, and related property rights, which are used in operations.
Recipient	A non-federal entity, such as ADOT, that expends federal awards received directly from a federal awarding agency to carry out a federal program.
Subrecipient	A non-federal entity that expends funds from a federal grant received from a pass-through entity to carry out a federal program. Examples would be Pima Association of Governments (PAG), Maricopa Association of Governments (MAG), as well as cities and towns, Metropolitan Planning Organizations (MPO's), and Councils of Government (COG's). An entity that receives funding from a subrecipient is also a subrecipient. (Note: The terms and conditions of the federal award are carried forward from the recipient to the subrecipient.)

**8.04 PROCEDURES FOR ALL FEDERALLY-FUNDED PERSONAL PROPERTY**

- A. When statutory authority exists, title to property purchased in whole or part with federal funds shall be vested in the recipient or subrecipient upon acquisition. The recipient or subrecipient is, however, responsible for adherence to any applicable federal program compliance requirements (49 CFR 18 Section 32).
- B. Use of Personal Property—federally-funded personal property may be used under the following conditions:
  - 1. Property shall be used by the recipient or subrecipient in the program or project for which it was acquired as long as needed, whether or not the project or program continues to be supported by federal funds.
  - 2. When no longer needed for the original program or project, the property may be used in other activities currently or previously supported by a federal agency.
  - 3. The recipient or subrecipient shall make property available for use on other projects or programs currently or previously supported by the federal government, providing such use will not interfere with the work on the projects or programs for which it was originally acquired.

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4. The recipient or subrecipient shall not use property acquired with grant funds to compete unfairly with private companies that provide equivalent services, unless specifically permitted or contemplated by federal statute.
  5. When acquiring replacement property, the recipient or subrecipient may use the property to be replaced as a trade-in or sell the property and use the proceeds to offset the cost of the replacement property, subject to the approval of the awarding agency, as well as ADOT.  
  
(Note: The federal awarding agency may be entitled to a share of the trade-in amount. Sections 8.04.1.1 and 8.04.1.2 show how this amount is calculated.)
  6. For ADOT-owned property, any such transactions are subject to the rules for disposal of ADOT property described in ADOT Policy FIN-11.02, 'Control and Inventory of ADOT Property.'
- C. Property obtained under a federal grant may be titled to, be in the physical custody of, and be carried on the financial statements of, a recipient or subrecipient. However, from the perspective of the federal awarding agency, ADOT is the agency to whom the federal agency has granted funds; as such, the federal awarding agency expects ADOT to ensure that federal regulations are followed.
- D. Federal regulations permit states to impose their own requirements on their subrecipients. The State of Arizona does have more strict requirements, which apply to ADOT's subrecipients, as they apply to ADOT. Therefore, transactions, as described herein, may be subject to approval by ADOT.
- E. In the normal course of business, ADOT may grant funds to a subrecipient (e.g. Maricopa Association of Governments, or MAG), which in turn grants them to its own subrecipient (e.g. a city or town). When this additional granting occurs, ADOT expects that ADOT's subrecipient will ensure compliance with all federal and state requirements, and further expects that ADOT's subrecipient (MAG, in this example) will handle all communications with its subrecipient, including, but not limited to:
1. The gathering of information to complete the annual inventory, as described in Section 8.06 of this policy, 'Inventorying Federally-Funded Property Owned by Subrecipients.'
  2. All rules governing the disposition of federally-funded property, as described in Section 8.07 of this policy, 'Disposition of Federally-Funded Property Owned by Subrecipients.'
- F. All federally-funded property, regardless of whether title is held by ADOT or by a subrecipient, is subject to the provisions of 49 CFR 18, also known as the Common Rule.
- G. Property management requirements for federally-funded personal property include:
1. Maintain property records that contain:
    - a. description of property
    - b. vendor
    - c. model
    - d. manufacturer
    - e. serial number

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- f. name of title holder
  - g. acquisition date
  - h. cost of property
  - i. accumulated depreciation
  - j. net book value
  - k. federal awarding agency
  - l. percentage of federal participation
  - m. percentage of recipient or subrecipient participation
  - n. location, use, and condition of property
  - o. date of disposal and sale price or trade-in value
  - p. contact person, with phone number
2. An annual physical inventory, which includes a report of all assets purchased in whole, or in part, with funds from the federal awarding agency when required by that agency. For property owned by ADOT, the inventory must reconcile to the financial statements as of the end of ADOT's fiscal year (June 30). Guidelines for inventorying property owned by subrecipients are discussed in Section 8.06, 'Inventorying Federally-Funded Property Owned by Subrecipients.' In either case, the inventory is to be submitted to the federal awarding agency by October 31.
  3. A control system to prevent loss, damage, or theft.
  4. Adequate maintenance procedures.
  5. Sales procedures (if authorized or required to sell property) which ensure the highest possible return.
- H. Disposition of Personal Property—When original or replacement equipment is no longer needed for the original program or project, or for other activities currently or previously supported by a federal agency, the property may be sold, with the federal awarding agency having the right to a share of the proceeds. Examples of how this share is calculated are shown in Sections 8.04.I.1 and 8.04.I.2 of this policy.
- I. Federal Awarding Agency's Share of Sale Proceeds: When a recipient or subrecipient sells, by any means (e.g. trade-in, auction, etc.), property purchased with federal funds, the federal awarding agency is entitled to a share of the proceeds, calculated using one of the following methods:
1. The federal awarding agency has the right to a calculated amount:
 

Current market value Or proceeds from sale (including trade-in)	<b>X</b>	Awarding agency's share (federal participation %) of the equipment
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If the grant agreement calls for the recipient or subrecipient to fund a percentage of the purchase price, that purchase price is calculated net of the trade-in amount, regardless of how much, if any, of the trade-in amount the federal awarding agency is entitled to.

**Example:** The following facts are assumed:

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- Purchase price of replacement property—\$200,000
- Trade-in allowance provided by vendor—\$20,000
- Net invoice price—\$180,000
- Percent of new property to be funded by subrecipient—20%
- Percent of traded-in property which was funded by federal awarding agency—85%

In this example:

- Amount of trade-in allowance to federal awarding agency—\$17,000 ( $\$20,000 \times 85\%$  federal share on traded-in property)
  - Amount of trade-in allowance to subrecipient—\$3,000 ( $\$20,000$  less  $\$17,000$ )
  - Amount of purchase of new property funded by subrecipient—\$36,000 ( $\$180,000 \times 20\%$  local share)
  - Amount of cash outlay by recipient or subrecipient—\$33,000 ( $\$36,000$  less  $\$3,000$ )
2. Should the property include an attachment not eligible for federal participation, the trade-in allowance will be pro-rated between the original purchase and the attachment based on their relative costs. It is the responsibility of the recipient or subrecipient to provide documentation of these costs.

**Example:** The following facts are assumed:

- Purchase price of replacement property—\$200,000
- Trade-in allowance provided by vendor—\$20,000
- Net invoice price—\$180,000
- Percent of new property to be funded by subrecipient—20%
- Purchase price of federally-funded traded-in property—\$90,000
- Purchase price of subrecipient-funded attachment, not eligible for federal participation—\$10,000
- Total cost of traded-in property—\$100,000
- Percent of traded-in property allocated to subrecipient-funded attachment—10% ( $\$10,000 / \$100,000$ )
- Percent of traded-in property which was funded by federal awarding agency (before accounting for attachment)—85%

In this example:

- Amount of trade-in allowance directly allocated to subrecipient—\$2,000 ( $\$20,000 \times 10\%$  not eligible for federal participation)
- Amount of trade-in allowance allocated to original purchase—\$18,000 ( $\$20,000$  less  $\$2,000$ )
- Amount of remaining trade-in allowance to federal awarding agency—\$15,300 ( $\$18,000 \times 85\%$  federal share on traded-in property)
- Amount of regaining trade-in allowance to subrecipient—\$2,700 ( $\$18,000$  less  $\$15,300$ )
- Total trade-in allowance to subrecipient—\$4,700 ( $\$2,000$  plus  $\$2,700$ )

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- Amount of purchase of new property funded by subrecipient—\$36,000 (\$180,000\*20% local participation on new property)
- Amount of cash outlay by subrecipient—\$31,300 (\$36,000 less \$4,700)

3. If appropriate disposition action is not taken by the recipient/subrecipient of the equipment, the federal awarding agency may direct the action to be taken.

J. Salvage Credits—Any proceeds received from the sale of salvage or scrap material are to be credited to the project to which the material was originally charged, or to a similar project.

**8.05 PROCEDURES FOR ALL FEDERALLY-FUNDED REAL PROPERTY**

A. Title to real property under a grant will vest, upon acquisition, in the recipient or subrecipient, as applicable. The recipient or subrecipient is, however, responsible for adherence to any applicable federal program compliance requirements under the Code of Federal Regulations (CFR) 49 CFR 18 Section 31.

B. Real property will be used for the originally-authorized purposes for as long as is needed for those purposes, and the recipient or subrecipient shall not dispose of or encumber its title or other interests.

C. When real property is no longer needed for the originally-authorized purpose, the subrecipient will notify ADOT, in writing, of its intentions regarding the property. One of the following options is to be selected:

1. Retention of title, after compensating the awarding agency an amount computed by multiplying the awarding agency's percentage of participation by the fair market value of the property. If real property acquired with federal funds is disposed of and replaced with real property under the same program, the net proceeds from the disposition may be used as an offset to the cost of the replacement property.
2. Sale of property, with the awarding agency being compensated in an amount equal to the awarding agency's percentage of participation by the sales price, after reducing said price by actual and reasonable selling and fix-up expenses. Procedures shall be in place to provide for as competitive a sales process as practicable, with the intent of realizing the highest possible return.

(Note: Examples of how to calculate the federal awarding agency's share of the sales proceeds are found in Sections 8.04.I.1 and 8.04.I.2 of this policy.)

3. Transfer of title to the awarding agency, with the recipient or subrecipient being compensated in an amount calculated by multiplying the recipient's or subrecipient's percentage of participation by the fair market value of the property.

**8.06 INVENTORYING FEDERALLY-FUNDED PROPERTY OWNED BY SUBRECIPIENTS**

When required by the federal awarding agency, an annual inventory is submitted of all assets purchased, in whole or in part, with federal funds, regardless of whether or not the property is in ADOT's physical custody or is carried on ADOT's financial statements. For property owned either by ADOT's subrecipients (e.g. MAG), or a subrecipient's subrecipients (e.g. a city or town), the following rules must be followed.

A. The inventory from all subrecipients must include all information described in 8.04.G.1 of this policy.

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- B. The inventory must reconcile to the financial statements as of the end of the entity's fiscal year (generally June 30).
- C. The inventory must be submitted by ADOT's subrecipient (e.g. MAG) to the ADOT Fixed Assets Manager by October 31.

**8.07 DISPOSITION OF FEDERALLY-FUNDED PROPERTY OWNED BY SUBRECIPIENTS**

- A. When federally-funded property is removed from service, voluntarily or otherwise, all parties involved must adhere to both federal and State of Arizona requirements. While federal requirements apply primarily to capital assets, those assets costing at least \$5,000 per unit, the State of Arizona has more strict requirements, both in terms of the processes to be followed and the fact that the State's requirements apply to all property, not just property costing at least \$5,000 per unit.
- B. No property is to be transferred to another entity, removed from the physical custody of the subrecipient, or deleted from the subrecipient's financial records without written approval from the ADOT Fixed Assets Manager. This approval will be communicated through ADOT's subrecipient (e.g. MAG).
- C. When property has been disposed of, it is the responsibility of the subrecipient to make sure the property is not included in the next inventory forwarded to ADOT, as described in Section 8.06 of this policy.
- D. When the subrecipient has received its funding from ADOT's subrecipient (e.g. a city receiving funding from MAG), the flow of communication, and any required documentation, is as follows. All of this communication must be in writing.
  - 1. The subrecipient (e.g. city) will inform MAG.
  - 2. MAG will inform the ADOT Fixed Assets Manager.
  - 3. The ADOT Fixed Assets Manager will inform MAG of the approval and of any additional required steps.
  - 4. MAG will inform the subrecipient (e.g. city).
- E. The following are requirements which are unique to the various categories of disposition:
  - 1. **MISSING/STOLEN**—The subrecipient must obtain a police report from a local law enforcement agency.
  - 2. **ACCIDENTAL DESTRUCTION**—The subrecipient must provide details about the destroyed property.
  - 3. **DONATION**—Approval of both the federal awarding agency and ADOT are required prior to any donation.
  - 4. **SURPLUS**—When property obtained under a federal grant is no longer needed for the purpose for which it was obtained, the property may be used in other activities currently or previously supported by a federal agency. When the subrecipient has determined that no such use is available, the property may be removed from service ('surplused'). Approval of both the federal awarding agency and ADOT are required.
  - 5. **CANNIBALIZATION/ON-SITE DESTRUCTION**—When it is determined that federally-funded property has value as a component of other property ('cannibalization') or if it is

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determined that the most effective way to dispose of such property is to destroy it on-site, an email, letter, or memorandum must be submitted and forwarded to the ADOT Fixed Assets Manager. This email, letter, or memorandum must contain the property's description, pictures of the property, and the reason for the request.

6. **TRADE-IN/SELLING WITH REPLACEMENT**—Trading in federally-funded property as partial payment on replacement property, or selling, may be done with approval of both the federal awarding agency and ADOT. The subrecipient must send an email, letter, or memorandum; this email or memorandum must include a complete description of the item(s) to be traded, a complete description of the item(s) to be purchased, a copy of the vendor quote which specifies price, trade-in amount, and net cost, and the reason for the request. No purchase order should be placed for replacement equipment without affirmative approval of the ADOT Fixed Assets Manager. For selling, the subrecipient must prepare an email, letter, or memorandum including the same information as for a trade-in, except that the manner of the sale is to be specified. The federal awarding agency is entitled to a share of the proceeds per the examples shown in Sections 8.04.I.1 and 8.04.I.2 of this policy, as applicable.

7. **TRADE-IN/SELLING WITHOUT REPLACEMENT**—If a subrecipient wants to sell federally-funded property without intending to obtain replacement within the next funding cycle, the subrecipient may do so. However, the federal awarding agency is still entitled to its share of the proceeds, per the examples shown in Sections 8.04.I.1 and 8.04.I.2 of this policy, as applicable. The forwarding of this share is administered using either of the following methods:

- a. The subrecipient forwards the funds to the entity from which it received funds for the original purchase. If a city or town is selling the property, the funds would be forwarded to the subrecipient (in this example, MAG, although it would apply equally to any subrecipient). In this example, or if MAG sells the property, MAG will account for the funds internally and make adjustments to the current or future year distribution from the federal awarding agency.
- b. The subrecipient notifies the entity from which it received funds for the original purchase (again, either MAG or ADOT, as applicable). Both the subrecipient and (in this example) MAG will track the funds, with the intent of properly applying the funds to a purchase of replacement property made at some future date.

F. **SALVAGE CREDITS**—If any proceeds are received from the sale of salvage or scrap material, the federal awarding agency is entitled to a share of these proceeds, as calculated in the examples shown in Sections 8.04.I.1 and 8.04.I.2 of this policy.

### 8.08 SUPPLIES

Title to supplies acquired under a grant will vest, upon acquisition, in the recipient or subrecipient as applicable. If, after termination or completion of the award, there is a residual inventory of unused supplies whose fair market value exceeds \$5,000, and if the supplies are not needed for any other federally-sponsored programs or projects, the recipient or subrecipient shall compensate the awarding agency for its share.

### 8.09 COPYRIGHTS

The awarding agency reserves a royalty-free, non-exclusive, and irrevocable license to reproduce, publish, or otherwise use, and to authorize others to use, for federal government purposes:

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- A. The copyright in any work, such as a book, publication, or other copyrightable material developed under a grant, or contract under a grant.
- B. Any rights of copyright to which a recipient, subrecipient, or a contractor purchases ownership with grant support.

**8.10 PATENTS**

The inventor of a patentable invention developed under a federally-funded grant retains rights to the invention. All contracts initiated by any pass-through entity or subrecipient must include the following clause, suitably modified to identify the parties, 'The subrecipient or contractor will retain all rights provided for the State in this clause, and the State will not, as part of the consideration for awarding the subrecipient or contract, obtain rights in the subrecipient's or contractor's subject inventions (37 CFR Part 401).

**8.11 CONTACT INFORMATION**

The ADOT Fixed Assets unit may be contacted at:

206 S. 17<sup>th</sup> Avenue, Mail Drop 203B  
Phoenix, AZ 85007  
(602) 712-8028 (manager)  
(602) 712-6592  
Email: [Fixedassets@azdot.gov](mailto:Fixedassets@azdot.gov)

**8.12 CORRESPONDING POLICIES**

FIN-11.02 Control and Inventory of ADOT Property

**8.13 CORRESPONDING FEDERAL REGULATIONS**

37 CFR 401 Rights to Inventions Made by Nonprofit Organizations and Small Business Firms under Government Grants, Contracts, and Cooperative Agreements.

49 CFR 18 Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments (also known as the Common Rule).