

August 20, 2026

TO: Members of the MAG Management Committee

FROM: Dean Giles, Principal Planner

SUBJECT: PM-10 CERTIFIED STREET SWEEPER PROJECTS FOR FY 2027 CMAQ FUNDING

The Maricopa Association of Governments is soliciting PM-10 Certified Street Sweeper Projects for FY 2027 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. Member agencies are invited to attend an application workshop that will include a review of the [web-based application](#) at 10 a.m. on Thursday, September 3, 2026. The workshop will also cover the Arizona Department of Transportation (ADOT) Policies and Procedures for the disposal of older street sweepers. **Completed and signed online project applications for PM-10 Certified Street Sweeper Projects for FY 2027 CMAQ funding are due by 12 p.m. on September 17, 2026. Late applications will not be accepted.**

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.

The FY 2026-2030 MAG Transportation Improvement Program identifies \$1,400,000 in FY 2027 CMAQ funding for the purchase of 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 applications should include PM-10 Certified Street Sweepers that meet South Coast Air Quality Management District Rule 1186 certification standards. The list of Rule 1186 Certified Street Sweepers, dated August 15, 2025, is attached. It is important to note that not all sweepers on the list are eligible for funding. At this time, the MAG street sweeper program will continue to fund only conventionally fueled vehicles to reduce

PM-10. 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 additional street sweeper equipment not eligible for reimbursement 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 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 on October 13, 2026. On October 22, 2026, 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 on November 12, 2026, the Transportation Policy Committee on November 18, 2026, and by the MAG Regional Council on December 2, 2026. It is anticipated that the project ranking would be retained for any additional FY 2027 CMAQ funds that may become available to the region.

If approved for a sweeper, MAG will issue a formal notification to proceed with procurement in a letter to the project sponsor. It is requested 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 grant funds. The ADOT Federal Property Management Standards require that each jurisdiction obtain ADOT approval prior to disposal of a grant-funded street sweeper. Also, the procurement of CMAQ funded street sweepers should proceed after project funding has been authorized.

If you have any questions, please contact me at 602-452-5013.

Attachments

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



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4182

(909) 396-2000 www.aqmd.gov

CERTIFIED STREET SWEEPERS UNDER South Coast AQMD RULE 1186 (AS OF AUGUST 15, 2025)

South Coast AQMD 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 South Coast AQMD 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 South Coast AQMD 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 Area Sources, at (909) 396-2390, or areasources@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 for the most recent list of Rule 1186 certified equipment.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (South Coast AQMD)

RULE 1186 CERTIFIED* STREET SWEEPERS AS OF AUGUST 15, 2025

THE FOLLOWING IS A LIST OF STREET SWEEPING EQUIPMENT THAT HAS CURRENTLY BEEN CERTIFIED FOR South Coast AQMD 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 SYSTEM*
BUCHER MUNICIPAL	E35	• ENCLOSED ELEVATOR SYSTEM • STEEL OR MIXED POLYESTER MAIN PICK UP BROOM • ONE (1) 0.072 INCH DIAMETER ORIFICE NOZZLE PER EACH GUTTER BROOM • TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES PER EACH SIDE OF THE MAIN PICK UP BROOM • THREE (3) 0.057 INCH DIAMETER ORIFICE NOZZLES IN SPRAY BAR LOCATED BEHIND THE MAIN PICK UP BROOM • TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES IN SPRAY BAR LOCATED UNDERNEATH THE CAB • WATER PUMP TO PROVIDE 40 POUNDS PER SQUARE INCH WATER PRESSURE
BUCHER MUNICIPAL	V50 V65 V80	• TWO (2) 0.039 INCH DIAMETER ORIFICE NOZZLES PER GUTTER BROOM • THREE (3) 0.042 INCH DIAMETER ORIFICE NOZZLES PER SUCTION BROOM • THREE (3) 0.039 INCH DIAMETER ORIFICE NOZZLES PER SUCTION NOZZLE • MULTI-POSITION SUCTION NOZZLE TWO ARM FACILITY • ONE (1) 0.042 INCH DIAMETER ORIFICE NOZZLE FOR THE IMPELLER FAN • WATER PUMP TO PROVIDE 50 POUNDS PER SQUARE INCH WATER PRESSURE

* 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.

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MAKE*	MODEL *	DUST CONTROL SYSTEM*
BUCHER MUNICIPAL	R65	• THREE (3) 0.067 INCH DIAMETER ORIFICE NOZZLES FOR GUTTER BROOMS • TWO (2) 0.07 INCH DIAMETER ORIFICE NOZZLES FOR CENTER CURTAIN • FOUR (4) 0.055 INCH DIAMETER ORIFICE NOZZLES FOR FRONT BUMPER • TWO (2) 0.067 INCH DIAMETER ORIFICE NOZZLES FOR FRONT CURB SPRAY • TWO (2) 0.07 INCH DIAMETER ORIFICE NOZZLES ON LEFT AND RIGHT SIDE OF PICK UP HEAD • THREE (3) 0.082 INCH DIAMETER ORIFICE NOZZLES FOR PICK UP HEAD FRONT SIDE • SEVEN (7) 0.079 INCH DIAMETER ORIFICE NOZZLES FOR PICK UP HEAD REAR SIDE • THREE (3) 0.079 INCH DIAMETER ORIFICE NOZZLES FOR WINDROW PATH • TWO (2) 0.045 INCH DIAMETER ORIFICE NOZZLES FOR PICK UP HEAD SUCTION • ONE (1) 0.079 INCH DIAMETER ORIFICE NOZZLE FOR BLOWER FAN OUTLET • PUMP TO PROVIDE 50 POUNDS PER SQUARE INCH WATER PRESSURE

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
CHALLENGER MANUFACTURING	CHALLENGER	- THREE (3) 0.03 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM - FOUR (4) 0.03 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED BETWEEN THE MAIN BROOM AND THE CONVEYOR - WATER PUMP TO PROVIDE 25 POUNDS PER SQUARE INCH WATER PRESSURE DURING OPERATION; MAXIMUM OF 45 POUNDS PER SQUARE INCH
CURBTENDER* (*formerly Wayne Sweepers)	CENTURION	- SEVEN (7) 0.0925 INCH DIAMETER ORIFICE NOZZLES ON SPRAY BAR UNDERNEATH THE CAB - TWO (2) 0.0925 INCH DIAMETER ORIFICE NOZZLES PER GUTTER BROOM (GUTTER BROOMS CAN BE OPERATED WITHOUT WATER SPRAYS IF FULLY ENCLOSED SHROUD SYSTEM IS UTILIZED AND MAINTAINED PER THE MANUFACTURERS SPECIFICATIONS) - THREE (3) 0.0925 INCH DIAMETER ORIFICE NOZZLES ON SPRAY BAR ABOVE CONVEYOR 300 GALLON WATER TANK - WATER PUMP TO PROVIDE MINIMUM OF SEVEN GALLONS PER MINUTE - SINGLE FAN VACUUM SYSTEM - GLAZED, POLYESTER FILTER SYSTEM (MAINTAINED TO ENSURE PROPER INTEGRITY)

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
CURBTENDER* (*formerly Wayne Sweepers)	GLADIATOR	- THREE (3) 0.0925 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM - SIX (6) 0.0925 INCH DIAMETER ORIFICE NOZZLES ACROSS FRONT BUMPER - FOUR (4) 0.0925 INCH DIAMETER ORIFICE NOZZLES AT THE REAR BROOM - WATER PUMP TO PROVIDE 60 POUNDS PER SQUARE INCH WATER PRESSURE
CURBTENDER* (*formerly Wayne Sweepers)	WARRIOR	- THREE (3) 0.0925 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM - SIX (6) 0.0925 INCH DIAMETER ORIFICE NOZZLES ACROSS FRONT BUMPER - WATER PUMP TO PROVIDE 60 POUNDS PER SQUARE INCH WATER PRESSURE
ELGIN	AIR CUB (LX/DX) CROSSWIND FURY	- DIAMOND GRID DUST SEPARATION SCREEN - LOUVERED CENTRIFUGAL DUST SEPARATOR - ONE (1) 0.06 INCH DIAMETER ORIFICE NOZZLE CENTRALLY LOCATED ABOVE FAN INLET IN THE HOPPER - TWO (2) 0.047 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE THE SUCTION TUBE - FOUR (4) 0.051 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM - PUMP TO PROVIDE 40 POUNDS PER SQUARE INCH WATER PRESSURE

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
ELGIN	CROSSWIND J	• DIAMOND GRID DUST SEPARATION SCREEN • S-TRAP CENTRIFUGAL SEPARATOR • FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE HOPPER • THREE (3) 0.059 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE SUCTION TUBE • THREE (3) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM • WATER PUMP TO PROVIDE 80 POUNDS PER SQUARE INCH WATER PRESSURE
ELGIN	REGENX RM	• DIAMOND GRID DUST SEPARATION SCREEN • S-TRAP CENTRIFUGAL SEPARATOR • FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE HOPPER • THREE (3) 0.059 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE SUCTION TUBE • THREE (3) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM • WATER PUMP TO PROVIDE 80 POUNDS PER SQUARE INCH WATER PRESSURE

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
ELGIN	PELICAN P & S PELICAN SE (WET SUPPRESSION)	- FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED BETWEEN THE MAIN BROOM AND THE CONVEYOR - TWO (2) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH GUTTER BROOM - WATER PUMP TO PROVIDE 80 POUNDS PER SQUARE INCH WATER PRESSURE
ELGIN	PELICAN P (WATERLESS SUPPRESSION)	- GUTTER/MAIN BROOM FULLY ENCLOSED SHROUD SYSTEM - ONE OR TWO CENTRIFUGAL DUST EVACUATION FAN(S) TO PROVIDE SUBSTANTIALLY SIMILAR AIRFLOW WITHIN A NORMAL OPERATING RANGE - SYNTHETIC MULTI-POCKET FILTER WITH HYDRAULIC SHAKER FOR DUST REMOVAL
ELGIN	PELICAN P (COMBINATION)	ALL OF THE FEATURES OF THE WET AND WATERLESS SUPPRESSION PELICAN P STREETSWEEPER WITH THE EQUIPMENT OPERATED IN EITHER THE WET OR WATERLESS MODE

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
ELGIN	EAGLE E EAGLE F EAGLE (CNG) BROOM BEAR ROAD WIZARD	• FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED BETWEEN THE MAIN BROOM AND THE CONVEYOR • THREE (3) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH GUTTER BROOM • WATER PUMP TO PROVIDE 80 POUNDS PER SQUARE INCH WATER PRESSURE
ELGIN	EAGLE F (WATERLESS)	• GUTTER/MAIN BROOM FULLY ENCLOSED SHROUD SYSTEM • CENTRIFUGAL DUST EVACUATION FAN • SYNTHETIC MULTI-POCKET FILTER WITH HYDRAULIC SHAKER FOR DUST CONTROL
ELGIN	EAGLE F (COMBINATION)	• ALL OF THE FEATURES OF THE WET AND WATERLESS EAGLE F STREET SWEEPER WITH THE EQUIPMENT OPERATED IN EITHER THE WET OR WATERLESS MODE
ELGIN	BROOM BEAR PLUG-IN HYBRID ELECTRIC	• FOUR (4) 0.060 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED BETWEEN THE MAIN BROOM AND THE CONVEYOR • THREE (3) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH GUTTER BROOM • ELECTIC DRIVEN WATER PUMP TO PROVIDE MINIMUM 80 POUNDS PER SQUARE INCH WATER PRESSURE

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
ELGIN	GEOVAC	• DIAMOND GRID DUST SEPARATION SCREEN • FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED IN THE HOPPER • TWO (2) 0.059 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE THE SUCTION TUBE • TWO (2) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM • FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES LOCATED AT THE EXTENSION BROOM • WATER PUMP TO PROVIDE 80 POUNDS PER SQUARE INCH WATER PRESSURE
ELGIN	WHIRLWIND MV	• DIAMOND GRID DUST SEPARATION SCREEN • FOUR (4) 0.06 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED IN THE HOPPER • TWO (2) 0.059 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE THE SUCTION TUBE • TWO (2) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM • FOUR (4) 0.60 INCH DIAMETER ORIFICE NOZZLES LOCATED AT THE EXTENSION BROOM • PUMP TO PROVIDE 80 POUNDS PER SQUARE INCH WATERPRESSURE
ELGIN	BROOM BADGER	• MAIN BROOM 58 INCH WIDE AND 35 INCH DIAMETER • FOUR (4) 0.060 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED BETWEEN THE MAIN BROOM AND THE CONVEYOR • THREE (3) 0.057 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH GUTTER BROOM • ELECTRIC WATER PUMP SYSTEM TO PROVIDE MINIMUM 80 POUNDS PER SQUARE INCH WATER PRESSURE

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
GLOBAL ENVIRONMENTAL PRODUCTS	M3 R3 R4 M4 M4 HSD M4E Zero Emissions	- ENCLOSED ELEVATOR SYSTEM - STEEL OR MIXED POLYESTER MAIN PICK UP BROOM - ONE (1) 0.072 INCH DIAMETER ORIFICE NOZZLE PER EACH GUTTER BROOM - TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES PER EACH SIDE OF THE MAIN PICK UP BROOM - THREE (3) 0.057 INCH DIAMETER ORIFICE NOZZLES IN SPRAY BAR LOCATED BEHIND THE MAIN PICK UP BROOM - TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES IN SPRAY BAR LOCATED UNDERNEATH THE CAB - WATER PUMP TO PROVIDE 40 POUNDS PER SQUARE INCH WATER PRESSURE
JOHNSTON	310	- FOUR (4) 0.072 INCH DIAMETER ORIFICE NOZZLES LOCATED IN FRONT SPRAY BAR - TWO (2) 0.072 INCH DIAMETER ORIFICE NOZZLES PER EACH GUTTER BROOM - ONE (1) 0.026 INCH DIAMETER ORIFICE NOZZLE LOCATED IN THE FAN SUCTION HOOD - WATER PUMP TO PROVIDE 50 POUNDS PER SQUARE INCH WATER PRESSURE

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
NESCON	X-BROOM	- THREE (3) 0.079 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM - FIVE (5) 0.079 INCH DIAMETER ORIFICE NOZZLES ACROSS FRONT BUMPER - FIVE (5) 0.050 INCH DIAMETER ORIFICE NOZZLES IN MAIN BROOM HOUSING - WATER PUMP TO PROVIDE 50 POUNDS PER SQUARE INCH WATER PRESSURE
NITEHAWK	RAPTOR II REGENERATIVE AIR SWEEPER ** ** EQUIPPED WITH PM-10 OPTION PACKAGE	- FOUR (4) 0.036 INCH DIAMETER ORIFICE NOZZLES ON SPRAY BAR - TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES IN HOPPER - TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES ON GUTTER BROOMS - WATER PUMP TO PROVIDE 70 PSI WATER PRESSURE <u>PLEASE NOTE THAT THE PM-10 OPTION PACKAGE DUST CONTROL SYSTEM IS DIFFERENT THAN THE STANDARD MODEL</u>

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
RAVO	3000 R5e	- TWO (2) 0.035 INCH DIAMETER ORIFICE NOZZLES ON GUTTER BROOMS - FOUR (4) 0.035 INCH DIAMETER ORIFICE NOZZLES INSIDE SUCTION NOZZLE - ONE (1) 0.035 INCH DIAMETER ORIFICE NOZZLE INSIDE SUCTION TUBE - WATER PUMP TO PROVIDE 36.25 POUNDS PER SQUARE INCH WATER PRESSURE
SCHWARZE	EV-1	- TWELVE (12) POLYESTER DRY FILTER CARTRIDGES (MAINTAINED TO ENSURE PROPER INTEGRITY) - FILTRATION CLEANED THREE TIMES PER-MINUTE - FILTRATION SYSTEM ACTIVE AT ALL TIMES

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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 (South Coast AQMD)

RULE 1186 CERTIFIED* STREET SWEEPERS AS OF AUGUST 15, 2025

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
SCHWARZE	EV-2	- EIGHT (8) POLYESTER DRY FILTER CARTRIDGES (MAINTAINED TO ENSURE PROPER INTEGRITY) - FILTRATION SYSTEM OPERATED AT ALL TIMES - EACH FILTER CLEANED THREE TIMES PER MINUTE
SCHWARZE	DXR	- POLYESTER DRY FILTER CARTRIDGES (MAINTAINED TO ENSURE PROPER INTEGRITY) - FILTRATION SYSTEM ACTIVE AT ALL TIMES - FILTRATION CLEANED FOUR TIMES PER MINUTE AND A HALF
SCHWARZE	A4000/ A4STORM	- FOUR (4) 0.036 INCH DIAMETER ORIFICE NOZZLES LOCATED ON THE SWEEPING HEAD - TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES INSIDE HOPPER - TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM - FOUR (4) 0.036 INCH DIAMETER ORIFICE NOZZLES INSIDE HOPPER ON SPRAY BAR - WATER PUMP TO PROVIDE 70 POUNDS PER SQUARE INCH WATER PRESSURE
SCHWARZE	M5000/M6000/ M6AVALANCHE	- FIVE (5) 0.036 INCH DIAMETER ORIFICE NOZZLES ON MAIN BROOM - THREE (3) 0.036 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTERBROOM - WATER PUMP TO PROVIDE 70 POUNDS PER SQUARE INCH WATER PRESSURE

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
SCHWARZE	A 7000/ A7 TORNADO A7 ZEPHYR A 8000/ A8 TWISTER A 9000/ A9 MONSOON	- SAWTOOTH DUST SEPARATION SCREEN, SELF DUMPING DUST SEPARATOR, FAN CENTRIFUGE - FIVE (5) 0.036 INCH DIAMETER ORIFICE NOZZLES LOCATED ON THE SWEEPING HEAD - TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES LOCATED ON HEAD INTAKE TUBE - TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES IN RIGHT HAND GUTTER BROOM - FOUR (4) 0.036 INCH DIAMETER ORIFICE NOZZLES LOCATED ON HOPPER SPRAY BAR - WATER PUMP TO PROVIDE 70 POUNDS PER SQUARE INCH WATER PRESSURE - TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES IN LEFT HAND GUTTER BROOM (REQUIRED IF BOTH GUTTER BROOMS ARE USED)
SCHWARZE	S348-I/ SUPERVAC VORTEX S348-LE/ SUPERVAC GALE FORCE SUPERVAC SUPER UPDRAFT	- FOUR (4) 0.036 INCH DIAMETER ORIFICE NOZZLES ON HOPPER SPRAY BAR - TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES IN HOPPER - TWO (2) 0.036 INCH DIAMETER ORIFICE NOZZLES ON RIGHT HAND GUTTER BROOM - WATER PUMP TO PROVIDE 70 POUNDS PER SQUARE INCH WATER PRESSURE

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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 (South Coast AQMD)

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
STEWART-AMOS	STARFIRE S-4, S-5, AND S-6	- FOUR (4) 0.05 INCH DIAMETER ORIFICE NOZZLES CENTRALLY LOCATED BETWEEN THE MAIN BROOM AND THE ELEVATOR - FOUR (4) 0.05 INCH DIAMETER ORIFICE NOZZLES LOCATED BENEATH THE FRONT BUMPER OF THE CHASSIS - TWO (2) 0.05 INCH DIAMETER ORIFICE NOZZLES LOCATED IN FRONT OF EACH GUTTER BROOM - WATER PUMP TO PROVIDE 40 POUNDS PER SQUARE INCH WATER PRESSURE
PYTHON	S2000	- FOUR (4) 0.008 INCH DIAMETER ORIFICE NOZZLES MOUNTED ABOVE AND AHEAD OF A 36 INCH FILL DIAMETER REAR BROOM - WATER LINE WITH 0.02 INCH DIAMETER ORIFICE AND THREE (3) 0.06 DIAMETER OUTLETS ABOVE EACH 42 INCH DIAMETER GUTTER BROOM - PUMP TO PROVIDE 24 POUNDS PER SQUARE INCH WATER PRESSURE DURING OPERATION <u>PLEASE NOTE THAT THE GUTTER AND REAR BROOM SIZES ARE DIFFERENT THAN THE STANDARD MODEL</u>
PYTHON	S3000	- FOUR (4) 0.008 INCH DIAMETER ORIFICE NOZZLES MOUNTED ABOVE AND AHEAD OF REAR BROOM - WATER LINE WITH 0.02 INCH DIAMETER ORIFICE AND THREE (3) 0.06 DIAMETER OUTLETS ABOVE EACH GUTTER BROOM - PUMP TO PROVIDE 24 POUNDS PER SQUARE INCH WATER PRESSURE DURING OPERATION

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
TENNANT	SENTINEL	- GUTTER/MAIN BROOM FULLY ENCLOSED SHROUD SYSTEM - DUAL FAN VACUUM SYSTEM (OPERATED AT ALL TIMES) - SYNTHETIC-SINGED POLYESTER FILTER (MAINTAINED TO ENSURE PROPER INTEGRITY)
TENNANT	830 / 831 II	- GUTTER/MAIN BROOM FULLY ENCLOSED SHROUD SYSTEM - DUAL FAN VACUUM SYSTEM (OPERATED AT ALL TIMES) - SYNTHETIC-SINGED POLYESTER FILTER (MAINTAINED TO ENSURE PROPER INTEGRITY)
TYMCO	210 300 350 435	- CYCLONIC, MULTIPASS, CENTRIFUGAL SEPARATION - CENTER DEBRIS DEFLECTOR ASSEMBLY PERPENDICULAR TO THE PICK UP HEAD - TWO (2) 0.043 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM - ONE (1) 0.063 INCH DIAMETER ORIFICE NOZZLE FOR EACH GUTTER BROOM - ONE (1) 0.063 INCH DIAMETER ORIFICE NOZZLE LOCATED IN THE HOPPER - ONE (1) 0.063 INCH DIAMETER ORIFICE NOZZLE LOCATED IN BLOWER HOUSING - WATER PUMP WITH A MINIMUM SYSTEM RELIEF VALVE SET AT 25 POUNDS PER SQUARE INCH

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
TYMCO	600 600 BAH FHD 500X	• CYCLONIC, MULTIPASS, CENTRIFUGAL SEPARATION • CENTER DEBRIS DEFLECTOR ASSEMBLY PERPENDICULAR TO THE PICK UP HEAD • FRONT DEBRIS DEFLECTOR CURTAIN ASSEMBLY PARALLEL TO THE PICK UP HEAD • LOW EMISSION DUST GUARDS (ONLY APPLICABLE TO CABOVER TRUCKS) • THREE (3) 0.063 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM • TWO (2) 0.043 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM • ONE (1) 0.093 INCH DIAMETER ORIFICE NOZZLE LOCATED IN THE HOPPER • ONE (1) 0.093 INCH DIAMETER ORIFICE NOZZLE LOCATED IN BLOWER HOUSING • TWO (2) [MINIMUM] HOPPER BAFFLE CURTAINS • WATER PUMP WITH A MINIMUM SYSTEM RELIEF VALVE SET AT 25 POUNDS PER SQUARE INCH
TYMCO	DST -4	• CYCLONIC, MULTIPASS, CENTRIFUGAL SEPARATION • SELF CONTAINED MULTIPLE FILTRATION SYSTEM UTILIZING PTFE MEMBRANE FILTERS • TWO (2) 0.043 INCH DIAMETER ORIFICE NOZZLES FOR EACH 32 INCH DIAMETER GUTTER BROOM • ONE (1) 0.063 INCH DIAMETER ORIFICE NOZZLES FOR EACH 32 INCH DIAMETER GUTTER BROOM • ONE (1) 0.063 INCH DIAMETER ORIFICE NOZZLE LOCATED IN THE HOPPER • WATER PUMP WITH A MINIMUM SYSTEM RELIEF VALVE SET AT 25 POUNDS PER SQUARE INCH

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
TYMCO	DST - 6	• CYCLONIC, MULTIPASS, CENTRIFUGAL SEPARATION • SELF CONTAINED MULTIPLE FILTRATION SYSTEM UTILIZING PTFE MEMBRANE FILTERS • THREE (3) 0.063 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM • TWO (2) 0.043 INCH DIAMETER ORIFICE NOZZLES FOR EACH GUTTER BROOM • ONE (1) 0.094 INCH DIAMETER ORIFICE NOZZLE LOCATED IN THE HOPPER • TWO (2) [MINIMUM] HOPPER BAFFLE CURTAINS • WATER PUMP WITH A MINIMUM SYSTEM RELIEF VALVE SET AT 25 POUNDS PER SQUARE INCH
VACALL	VS10/10D, VF10 VS13/13D, VF13 VS14/14D, VF14 VS16/16D, VF16 VS20/20D, VF20	• FOUR (4) 0.062 INCH DIAMETER ORIFICE NOZZLES LOCATED IN FRONT OF EACH 36 INCH GUTTER BROOM • FOUR (4) 0.062 INCH DIAMETER ORIFICE NOZZLES LOCATED IN FRONT OF THE TRANSFER BROOM • TEN (10) 0.125 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE THE PICK UP HEAD • SIX (6) 0.181 INCH DIAMETER ORIFICE NOZZLES LOCATED INSIDE THE SCRUBBER COLLAR OF THE PICK UP HEAD • 48 INCH POWER VACUUM NOZZLE • MINIMUM 300 GALLON GRAVITY FEED WATER SUPPLY SYSTEM WITH WATER CONTINUOUSLY SUPPLIED TO ALL NOZZLES • LOW VELOCITY DUST COLLECTION AIR CHAMBER • MINIMUM OF SIX (6) EXPANDED METAL SCREENS

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MAKE*	MODEL*	DUST CONTROL SYSTEM*
WAYNE SWEEPERS* (*acquired by Curbtender)	CENTURION	- SEVEN (7) 0.0925 INCH DIAMETER ORIFICE NOZZLES ON SPRAY BAR UNDERNEATH THE CAB - TWO (2) 0.0925 INCH DIAMETER ORIFICE NOZZLES PER GUTTER BROOM <i>(GUTTER BROOMS CAN BE OPERATED WITHOUT WATER SPRAYS IF FULLY ENCLOSED SHROUD SYSTEM IS UTILIZED AND MAINTAINED PER THE MANUFACTURERS SPECIFICATIONS)</i> - THREE (3) 0.0925 INCH DIAMETER ORIFICE NOZZLES ON SPRAY BAR ABOVE CONVEYOR 300 GALLON WATER TANK - WATER PUMP TO PROVIDE MINIMUM OF SEVEN GALLONS PER MINUTE - SINGLE FAN VACUUM SYSTEM
WAYNE SWEEPERS (*acquired by Curbtender)	GLADIATOR	- THREE (3) 0.0925 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM - SIX (6) 0.0925 INCH DIAMETER ORIFICE NOZZLES ACROSS FRONT BUMPER - FOUR (4) 0.0925 INCH DIAMETER ORIFICE NOZZLES AT THE REAR BROOM - WATER PUMP TO PROVIDE 60 POUNDS PER SQUARE INCH WATER PRESSURE
WAYNE SWEEPERS (*acquired by Curbtender)	WARRIOR	- THREE (3) 0.0925 INCH DIAMETER ORIFICE NOZZLES LOCATED AT EACH SIDE BROOM - SIX (6) 0.0925 INCH DIAMETER ORIFICE NOZZLES ACROSS FRONT BUMPER - WATER PUMP TO PROVIDE 60 POUNDS PER SQUARE INCH WATER PRESSURE

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ADDITIONAL NOTES:

** For any entity wishing to operate a NiteHawk Raptor II compliant with Rule 1186, the sweeper must be ordered with PM-10 Option Package, which includes the following:

- Front Spray bar configured with **Four (4)** 0.036-inch Orifice Spray Nozzles
- **Two (2)** Sweeper Head Spray Nozzles **Removed** from the Dust Suppression System
- 24" Whisper Wheel Fan Turbine Installed in place of Standard Hi Flow Fan Turbine
- Low Profile Brooms installed (applicable to driver side and passenger side brooms)
 - o 60 holes, 17 bristles. Bristle Dimension: 20" Length, 0.034" Thick, 0.011" Width
- Blower Vacuum System
 - o System will be tuned to an airflow rating of 6,178 CFM
 - o System will be tuned to deliver 27 HP at fan

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

1. Automatic lubrication system
(Autolube, grease jockey system)
2. Hopper access step
3. Hydrant hopper wash down system
4. Conveyor flush kit with hydrant
5. 1000 pounds per square inch (PSI) wand
6. Dual HiBack air-suspended seats
7. Hand hose
8. Hopper sound suppression
9. Right hand steer chassis upcharge
10. Air horn (reimbursable when
conventional electric horn is not
included)
11. AM/FM radio; CD
12. Training
13. Magnet bar
14. Stainless steel hopper
15. Sweeper, truck and wheel yellow paint
16. Additional roof-mounted air
conditioner
17. Holder rear mount for five-gallon pail
18. Cigarette lighter with 12v
19. Foam filled tire
20. Window tinting
21. Move exhaust port to left side of vehicle
22. John Deere auxiliary engine - Tier iT4

ARIZONA DEPARTMENT OF TRANSPORTATION POLICIES AND PROCEDURES

FIN-11.08 FEDERAL PROPERTY MANAGEMENT STANDARDS

Effective: March 24, 2025
Supersedes: FIN-11.08 (1/28/2010)
Responsible Office: Fixed Assets Team
(602) 712-6639

Review: March 24, 2026
Transmittal: 2025 - February
Page 1 of 17

1.1 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 or program supported by a federal grant.

1.2 SCOPE

This policy applies to all recipients and subrecipients of federal funds awarded through a grant to the Arizona Department of Transportation (ADOT). The policy is limited to those items whose acquisition cost is at least \$5,000 per unit.

1.3 DEFINITIONS

Acquisition Cost

Acquisition cost means the (total) cost of the asset including the cost to ready the asset for its intended use. For example, acquisition cost for equipment, means the net invoice price of the equipment, including the cost of any modifications, attachments, accessories, or auxiliary apparatus necessary to make it usable for the purpose for which it is acquired. Acquisition costs for software include those development costs capitalized in accordance with generally accepted accounting principles (GAAP). Ancillary charges, such as taxes, duty, protective in transit insurance, freight, and installation may be included in or excluded from the acquisition cost in accordance with the recipient or subrecipient's regular accounting practices.

Capital Asset

1. Tangible or intangible assets used in operations having a useful life of more than one year which are capitalized in accordance with GAAP.

Capital assets include:

- a. Land, buildings (facilities), equipment, and intellectual property (including software) whether acquired by purchase, construction, manufacture, exchange, or through a lease accounted for as financed purchase under Government Accounting Standards Board (GASB) standards or a finance lease under Financial Accounting Standards Board (FASB) standards.
 - b. Additions, improvements, modifications, replacements, rearrangements, reinstallations, renovations or alterations to capital assets that materially increase their value or useful life (not ordinary repairs and maintenance).
2. For the purpose of this part, capital assets do not include intangible right-to-use assets (per GASB) and right-to-use operating lease assets (per FASB).
 - a. For example, assets capitalized that recognize a lessee's right to control the use of property or equipment for a period of time under a lease contract. See also 2 CFR § 200.465.
 - b. The State of Arizona uses a threshold for capital assets of \$5,000 or more, and Federal Uniform Guidance uses a threshold of \$10,000 or more. For Federal grant—as well as other—purposes, “capital assets” means tangible or intangible assets used in operations having a useful life of more than one year which are capitalized in accordance with GAAP.

Encumbered

When one entity owns the asset, but there is a legal claim to that asset by another entity.

Equipment

Tangible personal property (including information technology systems) having a useful life of more than one year and a per-unit acquisition cost that equals or

exceeds the lesser of the capitalization level established by the recipient or subrecipient for financial statement purposes, or \$10,000. The lesser value is the State's threshold of \$5,000.

Special purpose equipment means equipment that is used only for research, medical, scientific, or other similar technical activities. Examples of special purpose equipment include microscopes, x-ray machines, surgical instruments, spectrometers, and associated software.

General purpose equipment means equipment that is not limited to research, medical, scientific or other technical activities. Examples include office equipment and furnishings, modular offices, telephone networks, information technology equipment and systems, air conditioning equipment, reproduction and printing equipment, and motor vehicles.

Computing devices means machines that acquire, store, analyze, process, and publish data and other information electronically, including accessories (or "peripherals") for printing, transmitting and receiving, or storing electronic information.

Information technology systems mean computing devices, ancillary equipment, software, firmware, and related procedures, services (including support services), and resources. See also the definitions of computing devices.

Federal Agency

Agency means an "agency" as defined at 5 U.S.C. 551(1) and further clarified by 5 U.S.C. 552(f). The term generally refers to the agency that provides a federal award directly to a recipient unless the context indicates otherwise. ADOT Federal Agencies include, but are not limited to:

A. United States Department of Transportation (DOT)

1. Federal Highway Administration (FHWA)
2. Federal Transit Authority (FTA)
3. Federal Aviation Administration (FAA)
4. Federal Motor Carrier Safety Administration

(FMCSA)

5. National Highway Transportation Safety Administration (NHTSA)
6. Federal Railroad Administration (FRA)

B. United States Department of Interior (DOI)

1. Bureau of Indian Affairs (BIA)
2. Bureau of Land Management (BLM)

Grant

Grant means a legal instrument of financial assistance between a federal agency and a recipient or between a pass-through entity and a subrecipient, consistent with 31 U.S.C. 6302, 6304:

1. Is used to enter into a relationship the principal purpose of which is to transfer anything of value to carry out a public purpose authorized by a law of the United States (see 31 U.S.C. 6101(3)); and not to acquire property or services for the Federal agency or pass-through entity's direct benefit or use.
2. Does not include an agreement that provides only:
 - a. Direct United States Government cash assistance to an individual
 - b. A subsidy
 - c. A loan
 - i. A loan guarantee
 - d. Insurance.

Intangible Property

Property having no physical existence, such as trademarks, copyrights, data (including data licenses), websites, Internet Protocol (IP) licenses, trade secrets, patents, patent applications, and property, such as loans, notes and other debt instruments, lease agreements, stocks and other instruments of property ownership of either tangible or intangible property, such as intellectual property, software, or software subscriptions or licenses.

Pass-Through Entity	A recipient or subrecipient that provides a subaward to a subrecipient (including lower tier subrecipients) to carry out part of a federal program. The authority of the pass-through entity under this part flows through the subaward agreement between the pass-through entity and subrecipient.
Personal Property	Property other than real property. It may be tangible or intangible.
Real Property	Land, including land improvements, structures and appurtenances thereto, and legal interests in land, including fee interest, licenses, rights of way, and easements. Real property excludes moveable machinery and equipment.
Recipient	An entity, such as ADOT, receives a federal award directly from a federal agency to carry out an activity under a federal program. The term recipient does not include subrecipients or individuals that are participants or beneficiaries of the award.
Subrecipient	An entity that receives a subaward from a pass-through entity to carry out part of a federal award. The term subrecipient does not include a beneficiary or participant. A subrecipient may also be a recipient of other Federal awards directly from a federal agency. 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.)
Supplies	All tangible personal property other than those described in the equipment definition. A computing device is a supply if the acquisition cost is below the lesser of the capitalization level established by the recipient or subrecipient for financial statement purposes or \$10,000, regardless of the length of its useful life. The lesser value is the State's capitalization threshold of \$5,000.

Tangible Asset

A tangible asset is an asset that has a physical substance and has a useful life that extends beyond a single fiscal year. Depending upon its nature and value, a tangible resource is treated for accounting purposes, either as an expensed tangible or as a tangible asset.

1.4 **POLICY** - ADOT follows State laws and policies related to the use, management and disposal of equipment acquired. The list below provides the applicable State laws and policies that must be followed.

A. General Accounting Office (GAO) State of Arizona Accounting Manual (SAAM)
References found [here](#):

- 2505 – General Policies
- 2515 – Information Technology Resources
- 2520 – Determination of Cost
- 2525 – Betterments
- 2530 – Computation of Depreciation, Amortization and Salvage Value
- 2535 – Stewardship
- 2540 – Inventory Procedures
- 2550 – Collections, Groups of Fixed Assets, Assemblies of Components, Etc
- 2551 – Transfer of Fixed Assets between Agencies
- 2560 – Lost, Stolen or Destroyed Fixed Assets
- 2561 – Disposal of Fixed Assets
- 2562 – Trade-ins, Warranty Replacements and Cannibalization of Fixed Assets
- 2565 – Intangible Assets other than Software
- 2570 – Document Retention for Long-Lived Resources
- 2590 – Capitalization, Depreciation, Amortization and Posting Tables

B. Surplus Property Reference: [ADOA Surplus Property Reference Manual](#)

1. Additionally, when equipment is purchased under a Federal award, ADOT must adhere to not only State laws and policies, but it must adhere to Uniform Guidance as well.

C. Federal, Uniform Guidance: [2 CFR § 200 - Subpart D, Property Standards](#)

1. It is necessary to become familiar with the applicable laws and policies, and this policy will provide further guidance on the topic of how to properly use, manage and dispose of equipment purchased under an ADOT Federal award.

1.5 **FEDERALLY FUNDED REAL PROPERTY**

- A. Title - Title to real property acquired or improved under a federal award will vest upon acquisition to ADOT as the recipient, or to ADOT's subrecipient. However, ADOT and its subrecipient are responsible for adherence to any applicable federal program compliance requirements under Uniform Guidance [2 CFR § 200.311](#).
- B. Use - Except as otherwise provided by federal statutes or by the federal agency, real property will be used for the originally authorized purpose as long as needed for that purpose, during which time ADOT or its subrecipient must not dispose of or encumber its title or other interests.
 - 1. ADOT and its subrecipients must, at a minimum, also provide the equivalent insurance coverage for real property acquired or improved with federal funds as provided to other real property owned by them. Federally owned property need not be insured unless required by the terms and conditions of the federal award.
- C. Disposition - When real property is no longer needed for the originally authorized purpose, ADOT must obtain disposition instructions from the federal agency or pass-through entity. If a subrecipient is involved, then the subrecipient should notify ADOT in writing of their intent, and work with ADOT to complete the requirements under this section. The instructions must provide for one of the following alternatives:
 - 1. Retain title after compensating the federal agency. The amount paid to the federal agency will be computed by applying the federal agency's percentage of participation in the cost of the original purchase (and costs of any improvements) to the fair market value of the property.
 - a. However, in those situations where ADOT or its subrecipient is disposing of real property acquired or improved with a federal award and acquiring replacement real property under the same federal award, the net proceeds from the disposition may be used as an offset to the cost of the replacement property.
 - 2. Sell the property and compensate the federal agency. The amount due to the federal agency will be calculated by applying the federal agency's percentage of participation in the cost of the original purchase (and cost of any improvements) to the proceeds of the sale after deduction of any actual and reasonable selling and fixing-up expenses.
 - a. If the federal award has not been closed out, the net proceeds from sale may be offset against the original cost of the property. When the subrecipient is directed to sell property, sales procedures must be followed that provide for competition to the extent practicable and result in the highest possible return.

(Note: Examples of how to calculate the federal agency's share of the sales

proceeds follow the method shared in Section 1.9.E of this policy.)

- b. Transfer title to the federal agency or to a third party designated/approved by the federal agency. ADOT is entitled to be paid an amount calculated by applying the subrecipient's percentage of participation in the purchase of the real property (and cost of any improvements) to the current fair market value of the property.

1.6 FEDERALLY FUNDED EQUIPMENT

- A. Title - Subject to the requirements and conditions set forth in [2 CFR § 200.313](#), title to equipment acquired under a federal award will vest in ADOT, the recipient or subrecipient, as applicable, upon acquisition. Unless a statute specifically authorizes the federal agency to vest title to ADOT, its recipient or subrecipient without further responsibility to the Federal Government, and the federal agency elects to do so, the title must be a conditional title. Title must vest subject to the following conditions:
 1. Use the equipment for the authorized purposes of the project during the period of performance, or until the property is no longer needed for the purposes of the project.
 2. Not encumber the property without approval of the federal agency or pass-through entity.
 3. Use and dispose of the property in accordance with sections 1.7 and 1.9 of this policy.
- B. General - ADOT must use, manage and dispose of equipment acquired under a federal award in accordance with state laws and procedures. The procedures are laid out in the following sections of this policy.

1.7 USE OF FEDERALLY FUNDED EQUIPMENT

- A. Use of federally funded personal property may be used with certain conditions as detailed below:
 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 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. If equipment is no longer needed in the original program and it is desired to be used on another activity, please contact the ADOT Fixed Assets Team to obtain prior approval from the federal agency.

3. The priority should follow this order:
 - a. The first priority would be for use for those programs supported by the federal agency, which funded the original program.
 - b. The second priority would be for use for activities under federal awards from other federal agencies, providing such use will not interfere with the work on the projects or programs for which it was originally acquired.
4. Use for non-federally funded programs or projects is also permissible. User fees should be considered if appropriate. 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.
 - a. Please contact the ADOT Fixed Assets Team to obtain prior approval, before proceeding.
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 Federal agency, as well as ADOT.
 - a. Please contact the ADOT Fixed Assets Team to obtain prior approval, before proceeding.
- 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 agency, ADOT is the agency to whom the federal agency has granted funds; as such, the federal 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. 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 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 1.8 Inventory of Federally Funded Property.
 2. All rules governing the disposition of federally funded property, as described in Section 1.9 of this policy, 'Disposition of Federally Funded Property.'
- F. All federally funded property, regardless of whether title is held by ADOT or by a subrecipient, is subject to the Property Standards in [2 CFR § 200.310-316](#).
- G. Property management requirements for federally funded personal property include:
1. Maintain property records that contain the following information:
 - a. Description of property
 - b. Vendor
 - c. Model
 - d. Manufacturer
 - e. Serial number
 - f. Name of title holder
 - g. Acquisition date
 - h. Cost of property
 - i. Accumulated depreciation
 - j. Net book value
 - k. Federal agency (including the FAIN)
 - 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 agency when required by that agency. For property owned by ADOT, the inventory must be reconciled 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 1.8, 'Inventory of Federally Funded Property.'
 3. A control system to prevent loss, damage, or theft.

- 4. Adequate maintenance procedures.
- 5. Sales procedures (if authorized or required to sell property) ensure the highest possible return.
- H. ADOT and its subrecipients must, at a minimum, also provide the equivalent insurance coverage for equipment acquired or improved with Federal funds as provided to other property owned by them. Federally owned property need not be insured unless required by the terms and conditions of the federal award.

1.8 INVENTORY OF FEDERALLY FUNDED EQUIPMENT - ADOT may be required by the federal agency to submit an annual inventory 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 that ADOT's subrecipients (e.g. MAG), or their subrecipients (e.g. a city or town) purchased with federal funds through ADOT, the following rules must be followed:

- A. An asset listing must be kept that includes all information described in 1.7, G. of this policy.
- B. A physical inventory must be completed at least annually and this inventory must be reconciled to the subrecipient's financial statements as of the end of the entity's fiscal year (generally June 30).
- C. The inventory must be submitted by the subrecipient to the ADOT Fixed Assets Team at faadministration@azdot.gov annually no later than October 31.

1.9 DISPOSITION OF FEDERALLY FUNDED EQUIPMENT

- A. 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 Team at faadministration@azdot.gov.
 - 1. Approval received from the ADOT Fixed Assets Team will then be communicated through ADOT's subrecipient (e.g. MAG) to its subrecipient, if applicable.
- B. 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 1.8 of this policy.
- C. 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. MAG's subrecipient (e.g. city) will inform ADOT's subrecipient (e.g. MAG)..
 2. ADOT's subrecipient (e.g. MAG) will inform the ADOT Fixed Assets Team.
 3. ADOT Fixed Assets Team will inform ADOT's subrecipient (e.g. MAG) of the approval and of any additional required steps.
 4. ADOT's subrecipient (e.g. MAG) will inform their subrecipient (e.g. city).
- D. The following are requirements which are unique to the various categories of disposition. Communication with ADOT should be by an email, letter, or memorandum and must be submitted and forwarded to the ADOT Fixed Assets Team at faadministration@azdot.gov. This email, letter, or memorandum must contain the property's description, pictures of the property, and the reason for the request:
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 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 (surplussed). However, prior approval of both the federal 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 determined that the most effective way to dispose of such property is to destroy it on-site, approval of both the federal agency and ADOT are required prior to the destruction.
 6. **TRADE-IN**—Trading in federally funded property as partial payment on replacement property, or selling, may be done with prior approval of both the federal agency and ADOT.
 - a. The subrecipient in communications with ADOT 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.

- b. No purchase order should be placed for replacement equipment without affirmative approval of the ADOT Fixed Assets Team. 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 agency is entitled to a share of the proceeds per the examples shown in this policy below, as applicable.

- 7. **SELLING**—If a subrecipient wants to sell federally funded property without intending to obtain a replacement within the next funding cycle, the subrecipient may do so, but must have procedures in place and follow these procedures to ensure the property is sold to receive the highest return possible.

- a. The federal agency is still entitled to its share of the proceeds, per the examples shown in this policy below, as applicable. No sale should be placed without affirmative approval of the ADOT Fixed Assets Team.

- 8. **SALVAGE**—If any proceeds are received from the sale or salvage of scrap material, the federal agency is entitled to a share of these proceeds, as calculated in the examples shown in this policy below.

- E. **Federal Agency 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 agency is entitled to a share of the proceeds. However, any proceeds received from the sale of salvage or scrap material will not affect this share, and instead are to be credited to the project to which the material was originally charged, or to a similar project.

- 1. When the ADOT Fixed Assets Team corresponds with the federal agency, if they fail to respond within 120 days with disposal instructions, or the property has a current per unit fair market value of \$10,000 or less (per unit), the property may be retained, sold or otherwise disposed of without any further communication to the federal agency or pass-through entity.

- 2. **Federal Share Calculation** - The federal agency has the right to its share, calculated using the formula below, and may permit a deduction of \$1,000 of the proceeds, for its selling and handling expenses:

Current market value Or proceeds from sale	x	Awarding agency's share (federal participation %) of the equipment
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(including trade-in)

3. **Trade-Ins** - 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 agency is entitled to. See the example below

Trade-In Example 1 : 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 old traded in property was funded by **federal agency** - 85%, and **subrecipient** - 15%
- Percent of new property to be funded by **federal agency** - 80% and **subrecipient**—20%
- In this example:
 - Federal:
 - Amount of trade-in allowance to federal agency—\$17,000 ($\$20,000 \times 85\%$ federal share on traded-in property)
 - In this example the federal share would be \$16,000 ($\$17,000 - \$1,000$ selling/handling)
 - Amount of purchase of new property funded by federal agency—\$160,000 ($\$200,000 \times 80\%$ federal share)
 - Amount of cash outlay by federal agency—\$144,000 ($\$160,000$ less \$16,000)
 - Subrecipient:
 - Amount of trade-in allowance to subrecipient—\$4,000 ($\$20,000$ less \$16,000)
 - Amount of purchase of new property funded by subrecipient—\$40,000 ($\$200,000 \times 20\%$ local share)
 - Amount of cash outlay by recipient or subrecipient—\$36,000 ($\$40,000$ less \$4,000)

Trade-In With Ineligible Amounts Example 2 : 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 **federal agency** - 80%, and **subrecipient** - 20%

- Purchase price of federally-funded traded-in property—\$90,000, which is a purchase price of \$100,000 minus an ineligible for federal participation attachment, of \$10,000
- 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 agency (before accounting for attachment)—85%
- In this example:
 - Amount of trade-in allowance directly allocated to subrecipient—\$2,000 (\$20,000*10% not eligible for federal participation)
 - Amount of trade-in allowance allocated to original purchase—\$18,000 (\$20,000 less \$2,000)

Federal:

- Amount of remaining trade-in allowance to federal agency—\$15,300 (\$18,000*85% federal share on traded-in property).
- Amount of purchase of new property funded by federal agency—\$144,700 (\$200,000*80% less \$15,300)

Subrecipient:

- Amount of remaining trade-in allowance to subrecipient—\$2,700 (\$18,000 less \$15,300).
- Total trade-in allowance to subrecipient—\$4,700 (\$2,000 not eligible, plus \$2,700 share of \$18,000)
- Amount of purchase of new property funded by subrecipient—\$35,300 (\$200,000*20% local participation on new property, less \$4,700 trade-in allowance)

1.10 SUPPLIES

Title to supplies acquired under a grant will vest in the recipient or subrecipient, as applicable, upon acquisition. If, after termination or completion of the award, there is a residual inventory of unused supplies whose fair market value exceeds aggregate \$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, using the same manner as equipment.

- A. The recipient or subrecipient must not provide services (using the supplies) to other organizations for a fee that is less than private companies charge for equivalent services, unless specifically authorized by federal statute. This restriction is effective as long as the Federal Government retains an interest in the supplies or as authorized by federal statute.

1.11 INTANGIBLE PROPERTY

- A. Title to intangible property acquired under a federal award vests upon acquisition in the recipient or subrecipient, who must use the property for the originally-authorized purpose, and must not encumber the property without approval of the Federal agency.
 - 1. When no longer needed for the originally authorized purpose, disposition of the intangible property must occur in accordance with the provisions in 2 CFR § 200.313(e), which mirror section 1.9 of this policy.
- B. The recipient or subrecipient may copyright any work that is subject to copyright and was developed, or for which ownership was acquired, under a federal award. The federal agency reserves a royalty-free, nonexclusive and irrevocable right to reproduce, publish, or otherwise use the work for Federal purposes, and to authorize others to do so.
- C. The recipient or subrecipient is subject to applicable regulations governing patents and inventions, including governmentwide regulations issued by the Department of Commerce at [37 CFR § part 401](#), "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Awards, Contracts and Cooperative Agreements."
- D. The Federal Government has the right to:
 - 1. Obtain, reproduce, publish, or otherwise use the data produced under a federal award.
 - 2. Authorize others to receive, reproduce, publish, or otherwise use such data for federal purposes.
- E. In response to a Freedom of Information Act (FOIA) request for research data relating to published research findings produced under a Federal award that were used by the Federal Government in developing an agency action that has the force and effect of law, the Federal agency must request, and ADOT or its subrecipient entity through ADOT must provide, within a reasonable time, the research data so that they can be made available to the public through the procedures established under the FOIA.
 - 1. Published research findings means when:
 - a. Research findings are published in a peer-reviewed scientific or technical journal.
 - b. A Federal agency publicly and officially cites the research findings in support of an agency action that has the force and effect of law.

“Used by the Federal Government in developing an agency action that has the force and effect of law” is defined as when an agency publicly and officially cites the research findings in support of an agency action that has the force and effect of law.

2. Research data means the recorded factual material commonly accepted in the scientific community as necessary to validate research findings, but not any of the following: Preliminary analyses, drafts of scientific papers, plans for future research, peer reviews, or communications with colleagues. This “recorded” material excludes physical objects (e.g., laboratory samples).
3. Research data also does not include:
 - a. Trade secrets, commercial information, materials necessary to be held confidential by a researcher until they are published, or similar information which is protected under law.
 - b. Personnel and medical information and similar information the disclosure of which would constitute a clearly unwarranted invasion of personal privacy, such as information that could be used to identify a particular person in a research study.

1.12 CONTACT INFORMATION

For questions, or to discuss situations not addressed in this policy relating to federally funded property, please contact the ADOT Fixed Assets Team using the contact information found here:

ADOT Fixed Assets Team

faadministration@azdot.gov