

**Conditions for Component Swapping and VDECS Re-designation for the
RYPOS ActiveDPF/C3+ and ActiveDPF/C verified for use on
Rubber Tired Gantry Cranes**

**Relating to Executive Orders DE-13-002 and DE-11-001
Effective Date: January 2015**

Rypos may authorize the component swapping or re-designation of a RYPOS ActiveDPF/C or ActiveDPF/C3+ verified diesel emission control strategy (VDECS) from the original installation to another rubber tired gantry (RTG) crane within the end user's commonly owned fleet, provided the following California Air Resources Board (ARB) requirements are met and agreed to by the dealer/installer as well as the end user:

ARB Requirements Applicable to All Swapping and Re-designation

- 1) Any end user performing a component swap or device re-designation must receive written authorization from Rypos allowing the practice.
- 2) Any party that removes a VDECS from an RTG application must remove and destroy the VDECS label on the RTG engine.
- 3) Any party which re-designates a VDECS to another engine/application which was never previously retrofit with that exact VDECS must obtain and properly install an appropriate VDECS engine label, which must be purchased from Rypos.
- 4) Any party which removes a VDECS from an RTG application must ensure that the donating RTG remains compliant with ARB regulations or that the RTG is taken out of service or repowered with a compliant engine.
- 5) VDECS units which are more than 10 years old based on the month and date of manufacture listed on the VDECS label, or VDECS of unknown age, are not legal candidate systems for re-designation to a different RTG.
- 6) The installer must agree to honor the original installation warranty and installation warranty period of the RYPOS ActiveDPF/C or ActiveDPF/C3+ VDECS. If the installer of either a swapped component or re-designated VDECS is not the same as the installer who did the original installation of the VDECS, the new installer must assume the installation warranty responsibilities defined in the RYPOS Installation Manual for the remainder of the original warranty period or until another installer swaps the component or re-designates the VDECS. If the original installation warranty has expired or has less than one year remaining, the installer must issue a new warranty to guard against potential installation defects. The new installation warranty must match the original warranty in the RYPOS Installation Manual except that the minimum period is reduced to one year from the date of installation. Any transfer of a VDECS or component by an installer that does not offer this installation warranty is not considered a valid installation.
- 7) Not more than 15 days prior to swapping a component to, or re-designating a VDECS for, a candidate recipient engine, the installer must conduct a Rypos RTG Pre-Installation Compatibility assessment (PIC) of the candidate recipient engine. The installer shall promptly, but in any event within five days of the assessment, deliver in person, mail, email or telefax to Rypos and to the end user, a copy of the Pre-Installation Compatibility Checklist.
- 8) The installer shall refer to the applicable RYPOS Installation and Owner's Manuals for acceptable installation and reinstallation practices.

9) No party shall advertise, sell, lease, or offer for sale or lease, a used VDECS.

RYPOS Component Swapping Requirements

Component swapping means the movement of a designated component of a VDECS between different vehicles or equipment which utilize the same RYPOS ActiveDPF/C or ActiveDPF/C3+ VDECS.

Rypos may authorize that components of the RYPOS VDECS system be moved from the original installation and transferred to another RTG VDECS, provided the following provisions are met:

- 1) Identical VDECS components that have the same part number may only be swapped between RYPOS ActiveDPF/C or ActiveDPF/C3+ VDECS, as the case may be.
- 2) The recipient RTG must already be fitted with the same configuration RYPOS ActiveDPF/C or ActiveDPF/C3+ VDECS.
- 3) The customer/installer changing the parts must provide the following information to Rypos:
 - a. Serial number of the VDECS having the parts removed (donor VDECS),
 - b. the engine hours at the time of the original installation of the donor VDECS,
 - c. the engine hours now, before the parts are removed, from the donor VDECS, and
 - d. the serial number of the recipient VDECS and the engine hours , both at the time of the original installation of the recipient RYPOS ActiveDPF/C or ActiveDPF/C3+ VDECS, and at the time of the component swap.
- 4) Rypos will honor the remaining warranty life of the component being swapped.
- 5) The donor RTG/engine whose component has been moved must remain in compliance with the terms and conditions of the applicable Executive Order and have all VDECS components present and functional.
- 6) The following is a list of components that are acceptable for swapping:
 - a. Indicator light harness
 - b. Rain caps
 - c. Exhaust pipe
- 7) If the list of components to be swapped includes components additional to those listed above, the swap should be considered a re-designation and those requirements must be followed.

RYPOS Device Re-Designation Requirements

Re-designation means the movement of a used VDECS from an appropriate engine/application and installation to another engine/application meeting the terms and conditions of the VDECS executive order within the same common ownership fleet as defined in the Verification Procedure, Warranty, and In-Use Compliance Requirements for In-Use Strategies to Control Emissions from Diesel Engines, Title 13, California Code of Regulations, Sections 2700-2711 (Procedure). Re-designation applies to the entire VDECS system, not component parts. Re-designation of a RYPOS ActiveDPF/C or ActiveDPF/C3+ VDECS is permitted, and Rypos will honor the remaining warranty on the system that has been re-designated, only under the following terms and conditions:

- 1) Re-designation must occur within the same common ownership fleet as defined in Section 2701 of Title 13 of the California Code of Regulations.
- 2) Customer/owner must contact Rypos and provide:
 - a. Serial number of the VDECS being moved,
 - b. The engine hours at the time of the original VDECS installation on the donor RTG,
 - c. The engine hours now, before the VDECS is removed from the donor RTG, and
 - d. Engine serial number and model year of the recipient RTG.
- 3) Rypos will then confirm in writing:
 - a. the authorization of the end user/owner to re-designate the VDECS;
 - b. the eligibility of the proposed VDECS system for re-designation under the criteria specified in the original executive order for the RYPOS ActiveDPF/C or ActiveDPF/C3+ VDECS; and
 - c. the amount of warranty time left on that specific VDECS, or if the warranty has expired, Rypos will advise of that as well.
- 4) An authorized Rypos Installer must perform the re-designation.
- 5) The end user and installer must verify that the new recipient RTG engine meets the terms and conditions of the VDECS executive order. If a RYPOS ActiveDPF/C or ActiveDPF/C3+ VDECS verified under a previous executive order is selected for re-designation and certain authorized engines and applications from the previous executive order have been excluded in the current executive order, the VDECS must not be installed on those excluded engines and applications.
- 6) The re-designated RYPOS ActiveDPF/C or ActiveDPF/C3+ VDECS must belong to a verified configuration covered under the Executive Order Series DE-11-001 or DE-13-002, respectively.
- 7) All RYPOS components must be inspected for wear, breakage, and functionality. If any component of the system shows excessive wear, or if any component is found not to be working properly, new components must be purchased from Rypos.
- 8) The dealer/installer must provide a letter of installation warranty for a period of one year from the date of the swap or re-designation. Please refer to item 6 of "ARB Requirements Applicable to All Swapping and Re-designation" above.
- 9) Customer must pay for and Rypos must perform a commissioning of the system prior to the recipient RTG being put back into service.