

Delaware Department of Transportation
QUESTIONS AND ANSWERS
DOT1411-TRL_MNT_CAMERA
TRAILER MOUNTED CAMERA SYSTEM
Thursday, May 15, 2014

Q #	Question	Answer
41	Reference Section 2.6 “The transportable trailer shall also have room for communications equipment (Ethernet and/or other) and transmitter, receivers, antennas, and fiber transceivers with dimensions less than 20 inches in all three planes, which will be purchased by the Department.” Question: this sentence is subject to misinterpretation. Are we to provide a storage box for added equipment purchased by the department or do we provide space on the trailer for a storage box purchased by the department? If we provide the storage box, is it considered another enclosure that has to meet NEMA specifications?	Response forthcoming.
40	Reference Section 2.6 Requirement #9 e. “The trailer axle shall have electric brakes at each wheel.” Question: Because most DelDOT trucks used to transport portable camera trailers do not support electric brakes, would you remove this requirement?	Response forthcoming.
39	Reference Section 2.6 Requirement #9 “Seven pin (R.V. type) trailer electrical connector...” Question: why do you require a 7 pin RV type connector when DelDOT usually uses a 7 pin round connector for its current portable camera trailers? Would you change the requirement to require a 7 pin round connector so that DelDOT will not have to either rewire the connector or purchase an adapter to allow the portable camera trailer to be used with DelDOT’s current truck fleet?	Response forthcoming.
38	Reference Section 2.6 requirement #7.b Hitch. Question: the requirement for 12,000GTW is design overkill and unnecessarily increases your cost. The total weight of the portable camera trailer is less than 3,500 pounds. Would you change the requirement to require 3,500 pounds capacity or capacity to the weight of the trailer if greater than 3,500 pounds?	Response forthcoming.

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37	Reference Section 2.6 requirement #7.b Hitch. Question: the requirement states that the hitch should be a Lunette Ring with Channel where all other portable camera trailers owned by DelDOT use a 2” ball coupler. Would you change this requirement to allow a 2” ball coupler instead of a lunette ring and channel because DelDOT will have to change to the 2” ball coupler after delivery? If you really want to keep the lunette ring and channel, would you please specify the travel height because the travel height for lunette ring and channel is variable?	Response forthcoming.
36	Reference Section 2.5.2 requirement 1.b “the battery system shall provide sufficient power to mechanically erect the PTZ Camera mast structure (tower), erect the Solar Panel mast structure, and provide live PTZ Camera streaming video via wireless communications from a field location to the TMC while allowing full operator (remote) controls for three (3) consecutive days without auxiliary charge.” Question: Please confirm that the system must only operate for three days of solar power operations? We believe that this requirement is in error and that DelDOT would be better served by requiring at least 14 days of continuous operation before requiring an auxiliary charge.	Response forthcoming.
35	Reference section 2.3 requirement #10 “Drain holes shall be provided and design to remove any condensation that may form inside the other enclosure and allow any water that may have collected in the housing to escape.” Question: would you explain the apparent contradiction between the NEMA type 4x requirements for other enclosures which require that no holes appear in the enclosure and the requirement to have drain holes? Is your intent for us to start with a NEMA type 4 cabinet and then place holes in it? If so, please confirm because placing a hole in a NEMA type 4 cabinet renders it non-compliant with your NEMA requirements.	Response forthcoming.

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34	Reference Section 2.3 requirement #8 “Forged rings shall be provided for moving and positioning the extendable arm assembly.” Question; would you please explain your concept of operations and how the extendable arm assembly relates to Other Enclosures? It could be that this requirement is out of place and does not apply to Other Enclosures.	Response forthcoming.
33	Reference section 2.3 Question: would you remove the Battery Enclosure as a part of Other Enclosures definition because Other Enclosures must meet NEMA type 4x requirements which means that the enclosure cannot be vented and battery enclosures must be vented in order to avoid a risk of explosion.	Response forthcoming.
32	Reference Section 2.8.4 requirement #8 Question: would you please eliminate this requirement because the requirement assumes a dial up modem connection to the camera where the connection will actually be an IP address with an associated phone number assigned by the telephone company where these parameters are under control of the phone company and not this system?	Response forthcoming.
31	Reference Section 2.8.1.1 “The ordered and installed Portable Camera shall be able to be controlled via the communications system provided by The Department ad using open, non-proprietary standards as defined in these Specifications.” Question: the only specification that we see required in the current document is ONVIF. Does the current ITMS software support ONVIF, and what other protocols does ITMS support for camera control and video display?	Response forthcoming.

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30	Reference Section 2.8.1 “the Portable Camera complying with these Specifications shall respond to any communications from the Department’s existing central software using the requirements as defined herein.” Question: Because a detailed software interface is not included in the Specifications, would you change the requirement to read “the portable camera system complying with these Specifications shall respond to ONVIF and/or NTCIP communications over an IP connection to the Department’s existing central software using the requirements as defined herein.”?	Response forthcoming.
29	Reference Section 2.8 “the complete PTZ Camera software system shall contain software components described herein, and all must support all features listed in section 2.2 of the Technical Specifications...” Question: would you change the language of the requirement to “The complete PTZ Camera software system shall contain software components described herein, and the collection of software and hardware must support all features listed in section 2.2 of the Technical Specifications...”?	Response forthcoming.
28	Reference Section 2.5.3 requirement #1 “All wiring from power sources to Portable Camera equipment shall use locking cable connectors.” Question: Would you confirm that this requirement applies to all connections outside of a cabinet or enclosure and that inside the cabinet or enclosure that RJ-45 connections are acceptable?	Response forthcoming.
27	Reference Section 2.2.4 “Additional minimum video framing rates and video resolution that are to be supported by the video compression are specified in section 2.2.1 of the Technical Specifications.” Question: what are the video framing rates and video resolution required because we see no such requirements in section 2.2.1?	Response forthcoming.

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26	Reference Section 2.2.2 Requirement 2. Vibration 3. Shock 4. Power Service Transients. Question. This requirement levies NEMA TS-4 Variable Message Sign Specification requirements on our system. Would you please provide more details on how a Variable Message Sign specification with NTCIP applies to camera housing requirements or could you be more specific in which requirements you want us to meet by explicitly stating the requirement rather than referring us to NEMA TS 4-2005?	Response forthcoming.
25	Reference Section 2.2.2 “the camera enclosure must be supplied with a built-in heater/blower to enable the camera to operate....” Question: Would you please confirm that the punctuation “/” means “or” so that the interpretation is that the camera must have a heater or a blower. Our dome camera uses a heater but our dome camera does not require a blower to operate. The heater alone is sufficient to provide correct operations.	Response forthcoming.
24	Reference Section 2.2.1 requirement 1.B “Picture freeze during zoom, focus, preset, and lens initializing”. Question: Would you please confirm that you want the picture to freeze when you perform these actions? In our experience, the user wants to see the picture change while zooming and focusing. How will the operator know the camera is in the correct position if the picture freezes during movement?	Response forthcoming.
23	Reference section 2.2 Function #8. Question: would you please define the term “MultiCall Activation”?	Response forthcoming.
22	Reference Section 2.2 Function #6 and #7. Question: Would you explain what you plan to do with these two functions and further define how these functions fit into the complete system?	Response forthcoming.
21	Reference section 2.2 function #5. Question: does camera/monitor switching refer to local vs TMC control of the camera or is it switching a video image onto a video wall in the TMC or something else?	Response forthcoming.

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20	Reference section 2.4 “the department will supply the communication topology equipment.” Question: Would you identify the modem model and the power requirements for the modem that you will provide so that we may properly size our power budget and space on our backplane? Will you provide an antenna as well? Can you confirm that the DeIDOT provided equipment shall operate at 12 VDC?	Response forthcoming.
19	Reference Section 2.5.2 requirement #2.o “Include System Monitoring software, as well as an API that provides full monitoring and remote access capability to the Portable Camera device locations.” Question: Is it your intent to monitor the status of solar power components through your TMS software or is it your intent to monitor the status of solar power components through a separate communications link using the system monitoring software provided? The former requires software modifications to your TMS software and is not very feasible because it requires us to link camera communications to solar power controller. The latter requires an additional modem to be provided by DeIDOT which will double DeIDOT’s communications costs per unit. May we provide the ability for a Personal Computer to connect directly to the Solar System Controller via a serial connection to monitor solar power status?	Response forthcoming.
18	Reference Section 2.5.2 requirement #2.c “Use MPPT (Maximum Power Point technology) or equivalent as approved by the Department.” Question: May we use MPPT-30 because MPPT-60 as required by this section is design overkill for the solar power required by this project and increases the project cost? The only significant difference is that MPPT-60 provides all the monitoring functions defined later in this section where MPPT-30 or MPPT-45 does not.	Response forthcoming.

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17	<p>Reference section 2.5 requirement #8: "PTZ Camera controller shall be able to sense the failure of each individual power supply." Question: Would you further explain your intent behind this requirement because the PTZ Camera does not monitor the power supply of the solar package? The PTZ Camera controller is located within the camera and uses Power over Ethernet. Other components monitor power failures. Would you eliminate the requirement for the PTZ Camera Controller to perform power monitoring functions in favor of a different component performing the function?</p>	Response forthcoming.
16	<p>Reference Section 2.3, p. 28 of 55. Question: what is your intent in requiring a Delaware State licensed Professional Engineer seal the fabrication and shop drawings and design calculations for all other enclosures? Are you asking the Professional Engineer to sign off on the design presented in this specification and to assure that the equipment provided meets the design? Would you modify this requirement to require a Delaware licensed Professional Engineer to review the vendor's technical information because some manufacturers consider their fabrication drawings proprietary or trade secret and will not provide such drawings to us or to the State? By changing the requirement, DelDOT better assures more open competition while maintaining safety through its inspection and acceptance process.</p>	Response forthcoming.
15	<p>Can you please confirm if a Bid Bond is required for the bid for Trailer Mounted Camera System DOT1411-TRL_MNT_CAMERA. On page 5 of 55 section 10. Proposal Guaranty; Bid Bond it is stated WAIVED however on page 13 of 55 section 8. Bid Bond Requirement specifics are given and there is an Attachment B.</p>	See Addendum No. 1.
14	<p>Page 32: 2.6 (7C) Would two 5/16 grade 70 transport chains be considered in place of ¼ inch galvanized chains? Reference: Safety chains: Two 3 ft. long (minimum) (as measured from the end of the trailer tongue)galvanized steel ¼ inch, with 2,500 minimum rating slip safety hooks.</p>	Response forthcoming.

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13	<p>Page 32: 2.6 (7 a) Trailer , would four crank and swivel type screw leveling jacks 2,000 lb. capacity for a trailer weighing 2500 lbs maximum be considered in place of four 3,000 lb capacity?</p> <p>Reference: Provide extendable stabilizers: Four adjustable outriggers rates at least 3,000 lb capacity capable of extending at a minimum of 30 inches from the frame.</p>	Response forthcoming.
12	<p>Page 32: 2.6 (6 a)Trailer , would durable polyethylene composite battery boxes be considered in place of 14 gauge steel boxes?</p> <p>Reference: Battery box utilized shall conform to the following requirements: 14 gauge steel</p>	Response forthcoming.
11	<p>Page 43: required to give NTCIP MIB. No NTCIP requirement are given into the camera specification. Can you clarify why this point is referenced? Is a camera provided with its own software and standard SNMP MIB is acceptable?</p> <p>Reference: “However, copies of the utilized NTCIP Management Information Base (MIB) shall be provided for each Portable Camera separately.”</p>	Response forthcoming.
10	<p>Page 35: All the items under point 2.8.4 #8 are modem related information. The communication devices are provided by the department. Do you only want to assure that we are providing your access to your modem ports to modify the modem parameters or something else?</p>	Response forthcoming.
9	<p>Page 35: Please define what you mean by message display?</p> <p>Ref: c. Monitoring functions such as monitoring the message displays and obtaining diagnostics results shall be accessible by another level.</p>	Response forthcoming.

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8	Page 34 and 35. DOT is specifying both MIB for integration into current software and COTS. Does the DOT wants one or the other or both of them?	Response forthcoming.
7	Page 34: Provide detail on the Department's TMs software. Vendor, version. Ref: "It is the responsibility of the vendor to confirm that their camera can communicate and fully function utilizing The Department's TMC software?"	Response forthcoming.
6	Page 26: Please clarify this point Ref: a. Restart or sequence a display mode operation with currently stored RAM lines of text.	Response forthcoming.
5	Page 26: Reference to Camera protocol is indicated but no protocol requested in section 2.2. What is the protocol and list of equipments already in place that require compatibility? Ref: Support PTZ and camera control via camera protocol for PTZ command and control, labeling and presets (and all protocol features listed in Section 2.2). The Department will not upgrade existing PTZ joysticks, PTZ control equipment, PTZ control protocol, Camera/Preset labeling or control, web PTZ servers, video walls, and web video hardware and software components as part of this Contract, thus the camera must interface with the existing control systems and protocol.	Response forthcoming.
4	Page 23. Define what you mean by an a multicall Activation feature. Reference: 8. Pre-defined Camera Positions, Video Tours, MultiCall Activation	Response forthcoming.

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3	<p>Page 23. Define what you means by an Alarm Acknowledge feature.</p> <p>Reference: 7. Alarm Control (Enable, Disable, Acknowledge)</p>	Response forthcoming.
2	<p>Page 23. The specification defined in section 2.2 and 2.2.1 are the one from a vendor camera + a separate enclosure. The same vendor is offering the camera already in an IP66 enclosure which provide a better integrated product. However the output relay is not offered in integrated product. Is that feature really required?</p> <p>Reference: 6. Auxiliary Relay Output Control (on/off)</p>	Response forthcoming.
1	<p>Page 23. Define what you means by monitor switching? No monitor has been requested in the specification</p> <p>Reference: “5. Camera/Monitor Switching »</p>	Response forthcoming.