



**City of Tacoma
TPU / Tacoma Rail
Locomotive Simulator Software Upgrade
RFP Specification No. TR21-0479F**

QUESTIONS and ANSWERS

All interested parties had the opportunity to submit questions in writing by email to Dawn DeJarlais at ddejarlais@cityoftacoma.org by November 24, 2021. The answers to the questions received are provided below and posted to the City's website at www.TacomaPurchasing.org: Navigate to *Current Contracting Opportunities Supplies* and then click *Questions and Answers* for this Specification. This information IS NOT considered an addendum. Respondents should consider this information when submitting their proposals.

Question 1: Could you please define the number of miles we would have to reproduce? (Both generic and specific)

Answer 1: Approximately 34 miles of specific track alignments.

Question 2: Would there be an interest in having a scenario's editor rather than fixed ones?

Answer 2: Submission should indicate if proposed system has an option for end users to modify existing, or create new scenarios.

Question 3: Following the above, any interest in a track editor instead of having predefined tracks?

Answer 3: No.

Question 4: Would it be possible to get some pictures of your current stand including front and rear views?

Answer 4: See pictures below.

Question 5: To fully understand what you have, could you please kindly provide us the number of computers and screens currently used on your simulator?

Answer 5: One computer monitor for the trainer/evaluator in addition to the simulator.

Question 6: Has the Desk been modified with updated on board systems since installed in 2013? Would it be possible to ask for Pictures of the current display controls?

Answer 6: No updates have been installed since the initial installation.

Question 7: What make/models of locomotives do you wish to replicate on the updated simulator?

Answer 7: EMD MP-15, GP-22, GP-38, GP-40 and SD-70.

Question 8: How many kilometres of high resolution and how many generic tracks would you like to replicate? Will the existing track CGI be made available to the Supplier for simulator Upgrade?

Answer 8: 55 Kilometers. Submissions should indicate if vendor is able to provide equipment necessary to collect video needed to generate the track CGI.

Question 9: What Driver displays and Signaling/Radio systems does the current simulator have?

Answer 9: Current simulator system is antiquated; submissions should detail what is offered standard package.

Question 10: Will the current Front Vision screen display be retained? What are the resolution requirements of the existing or replacement display?

Answer 10: No, submissions should anticipate replacement of an existing 47" television with external speakers.

Question 11: Could you please give us mote explanations regarding the term 'fusees' page 14 of your document?

Answer 11: Term 'fusee' refers to 10-minute road flare.

Question 12: As per the 4th bullet on page 14, it seems that you do not need radio. That would for Dispatcher/Foreman talking to driver, but we are concerned about the response: how does the driver communicate back?

Answer 12: Verbally to the trainer/evaluator.

Question 13: Could we have more info on MOW Form B and EIC?

Answer 13: No, these are standard railroad industry terms related to Maintenance of Way activities on controlled track(s).

Question 14: Is the Supplier required to purchase a Performance Bond for this project?

Answer 14: No.

Question 15: Section 12.2 states, "In the fields below, describe a minimum three verifiable projects similar in scope and complexity..." What are the fields the requirement is referring to?

Answer 15: Previsous contracts your firm has successfully completed to install a functional railroad locomotive simulator.

Question 16: Do any of the operator control equipment (i.e. master controller, brake controllers, horn, bell, etc.) on the existing AAR-105 control stand require repair or replacement?

Answer 16: The alerter button does not currently work. Left-side engineer monitor screen does not work.

Question 17: Section 12.8 requires identifying reporting capabilities (Level I, II, or III). We are not familiar level I, II, or III reporting capabilities. What are the definitions / details of this requirement?

Answer 17: Level I, II, III reporting capabilities refer to how transaction data is captured at a supplier's point of sale (POS) system and transmitted through the network. The type of POS or technology the supplier uses determines what data is captured and ultimately transmitted to the end-user through the card issuer. Level 1 is basic data transmission and Includes date, supplier name, and transaction amount. Level 2 is all of the information provided in Level 1 plus tax amount, customer defined code, postal code and state. Level 3 is the most informative and includes all information outlined in Levels 1 and 2, but also includes information on the ship from postal codes, freight amount and line-item detail. For more detailed information you can reach out to your credit card processing company. The City prefers Level 2 or 3 reporting.

**Question 18: One deliverable listed in Section 26 is:
High resolution graphics in specific locations and generic track lines in less important areas as requested by Tacoma Rail.
Does the phrase, "generic track line" refer to generic scenery objects surrounding the track corridor?**

Answer 18: Yes.

**Question 19: One deliverable listed in Section 26 is:
High resolution graphics in specific locations and generic track lines in less important areas as requested by Tacoma Rail.
What are the maximum boundaries of high-resolution specific areas requested in this scope of work?**

Answer 19: 100-feet beyond centerline of the track.

Question 20: Does the Ancillary Cost category include project Management, QA, Documentation, and Training?

Answer 20: Yes, for training. Presumably project management is an installation component and QA documentation is an internal design function. If these assumptions are not correct, provide all other costs not associated with items 1, 2 and 3 on that line.

Question 21: Can you specify what tracks need to be built for simulation?

Answer 21: Replication of signal features on Lakeview Sub track(s) MP.0 (near UPRR Fife) to MP19.0 (near DuPont).

Question 22: How many track miles need to be built?

Answer 22: Twenty-five (25).

Question 23: Which areas need to have high detail graphics?

Answer 23: MP 1 to MP 2.4, MP 3.6 to MP 4.2, MP 5.8 to MP 10.7, MP 17.2 to MP 19

Question 24: Are there any landmark buildings which will require custom models?

Answer 24: The platforms around Freight House Square, Tacoma Dome station, between MP1.8 and MP2.0.

Pictures requested above in question 4.





