**City of Tacoma**
**Tacoma Public Utilities**

**Cushman Floating Surface Collector**
**RFP Specification No. PG17-0421F**

## QUESTIONS and ANSWERS

All interested parties had the opportunity to submit questions in writing to kward2@cityoftacoma.org by 3:00 PM November 6, 2017. The answers to the questions received are provided below and posted to the City's website at www.TacomaPurchasing.org. This information is not considered an addendum. Respondents should consider this information when submitting their proposals.

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| **Question 1:** | Will Tacoma Power provide the database and reporting interface code that were previously developed for the project? |
| Answer 1: | It is Tacoma's intent to work with the current contractor to provide continuity between the existing database and the 2018-2020 database. This should include code, raw data files and access to the live-stream. |
| **Question 2:** | Can you provide a list of acoustic telemetry equipment owned by Tacoma Power that will be available for the 2018-2020 passage evaluations at Cushman Dam? |
| Answer 2: | Tacoma Power has available for use:<br>Seven Teknologic 2/3d JSATS receivers<br>Fifteen Lotek model WHS4000/4250 JSATS receivers |
| **Question 3:** | Can Tacoma Power disclose who the participants are in the regional fisheries groups mentioned under section E #3 so bidders can understand potential conflicts of interest when developing proposed project teams? |
| Answer 3: | This will likely be the Fisheries Habitat Committee, but may be taken on by the Downstream Adaptive Management Subcommittee which is comprised of a subgroup of the FHC providing recommendations. |
| **Question 4:** | Is an extension possible? |
| Answer 4: | An extension is not likely in the best interst of Tacoma at this point. Tacoma would like to leave enough time to allow order of tags and additional telemetry equipment as well as refine evaluation, if necessary. When considered with the current contracting timeline it is not preferable to modify the response date. |
| **Question 5:** | How are the detection, entrance and retention zones delineated? |
| Answer 5: | The Zone of Influence (ZOI) is delineated by an arc with a radius of 137 feet from the center point of the entrance of the Net Transition Structure (NTS). Discovery efficiency is measured as the proportion of fish released at one of 3 points 0.25 miles upstream from the Floating Surface Collector entrance that are subsequently detected within the ZOI.<br>The entrance begins at the vertical plane of the mouth of the NTS. Entrance efficiency is defined as the proportion of fish that were detected in the ZOI that entered the NTS.<br>The NTS Transition zone is the area between the NTS entrance and the leading edge of the Retention zone. NTS Transition efficiency is the proportion of all fish that enter the NTS that are detected at the leading edge of the Retention zone.<br>The Retention zone is defined as the area of the NTS where water velocities approach 8 feet per second. Retention efficiency is defined as the proportion of fish that enter the NTS and are subsequently captured.<br>An additional metric, Pre-retention conversion, is defined as the proportion of |

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| | all fish that approach the leading edge of the Retention zone that are subsequently captured. |
| **Question 6:** | Will the database and live-streaming developed on the previous Cushman RFP be available (with login credentials) for the 2018 project? |
| Answer 6: | Yes, however, the intent is to maintain a single database with continuity between 2015-2020. |
| **Question 7:** | Will Tacoma Power-owned acoustic telemetry equipment be available for use on the 2018 project? |
| Answer 7: | Yes; however responses should not be limited to use of this equipment. |
| **Question 8:** | What are the requirements for on-site personnel, 7 days/week? |
| Answer 8: | If this is in reference to the “on-site evaluation field manager/coordinator” described in Section II.B.3.c (Workplan). This individual is scheduled to be available for support Monday – Friday approximately 8 hours per day. |
| **Question 9:** | Have there been any recent flow, ADCP studies conducted at the FSC and ZOI? Are there plans to do those types of studies in conjunction with the 2018 project? |
| Answer 9: | Weekly full depth water velocity profiles were taken in transects at various points in the NTS, throughout the 2017 collection season, in addition to several occasions in 2016. An ADCP was used to measure conditions in the ZOI in 2016. Velocity profiles will continue through the 2018 season, at a minimum. |