

“Research Study of River Information Services on the US Inland  
Waterway Network

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**3<sup>RD</sup> INTERIM REPORT**

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## Report Documentation Page

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**Contents**

- 1 Project at a glance..... 3**
- 2 Abstract..... 3**
- 3 Technical Status..... 4**
  - 3.1 Activity 3, Cooperative development of a RIS/LOMA specification..... 4
  - 3.2 Activity 4, Cooperative evaluation of LOMA acceptance ..... 4
  - 3.3 Status of collaborative activities ..... 5
- 4 Business Status ..... 5**

## 1 PROJECT AT A GLANCE

Project Volume:	USD 155,540.00
Project Start:	July 6, 2010
Project End:	July 5, 2012
Project Report:	No. 3/5 (month 10)
Reporting Period:	Feb. 2, 2011 – Apr. 30, 2011 (3 months)
Technical Status:	
Financial Status:	
Current Invoice:	USD 6,360.99
Outstanding costs:	USD 106,286.32
Next Report:	Feb. 29, 2012 (month 20)
Final Report:	July 6, 2012 (month 24)

## 2 ABSTRACT

During the third reporting period the cooperation partners mainly dealt with joint efforts to prepare the closure of the LOMA 1.0 project phase. The related activities comprised the review of documentation delivered by the supplier, the identification of open items and the planning of the acceptance procedures.

Further the planning process for the LOMA 2.0 project did start with the review of the project schedule, the review of the first technical specifications and an identification of improvements in the project management process.

A common meeting with the system supplier has been planned and prepared for the week of May 9, 2011.

## 3 TECHNICAL STATUS

The work done in the third reporting period concentrated on the activities 3 and 4 according to contract attachment 5, article 1. The progress to date on research milestones, as well as the identified challenges/problems is reported in relation to the proposed activities.

### 3.1 Activity 3, Cooperative development of a RIS/LOMA specification

The main activity was the preparation for a workshop with the system supplier scheduled from May 10 to May 12, 2011 in Vicksburg MS. The goal of this workshop was to agree on the finalization of the LOMA 1.0 project and the detailed planning of the LOMA 2.0 project.

One major preparatory task was the formulation of the initial feedback to the "Product Requirement Specification" (PRS) delivered by the system supplier before the LOMA 2.0 project kick-off beginning of March. The PRS was checked for completeness with the Scope of Work (SOW) document which is part of the contract. While the PRS was found to be well structured and complete on a high level, it was agreed between USACE and via donau that a detailed functional description is expected for each requirement listed in the PRS.

Further USACE and via donau agreed on the necessary transparent linking of the PRS with the acceptance procedures, to ensure that all requirements defined are properly evaluated during the acceptance tests. via donau has provided structured templates from comparable projects to illustrate possible ways to come to a consistent handling of requirements.

Another major task was the feedback of the initial draft project schedule delivered by the system supplier. Common understanding was reached between USACE and via donau that the project schedule must:

- be based on realistic and transparent process durations,
- foresee the necessary time for feedback cycles by USACE,
- show the planned timeframe for acceptance procedures and
- show realistic and tangible milestones.

It was further recommended by via donau to introduce payment-related milestones, scheduled after the acceptance of major document approvals and passing of acceptance procedures, rather than regular payment on a monthly basis.

### 3.2 Activity 4, Cooperative evaluation of LOMA acceptance

The system supplier has delivered a first draft of the "Test Case Plan" which shall act as guidelines for the technical acceptance of LOMA 1.0. For the draft document the following deficiencies have been identified:

- Missing reference to the tested requirements;
- Missing classification of errors;
- Missing definition of consequences of errors.

Therefore USACE and via donau prepared a proposal for the common workshop with the system supplier in Vicksburg which contained the following major steps for the finalization of LOMA 1.0:

- Review of the requirement specification, dated June 22, 2010 as some requirements have changed;

- Linking of the agreed requirements with the test cases of the “Test Case Plan”;
- Introduction of and agreement on a 3-, or 4-level failure classification with pre-defined consequences for the acceptance process;
- Elaboration of a cross-reference matrix by the system supplier to prove the complete testing of all requirements;
- Elaboration of a detailed open item list to track the outstanding issues in the LOMA 1.0 project;
- Elaboration of a detailed schedule for the closure of the LOMA 1.0 project.

### 3.3 Status of collaborative activities

Besides the preparation of the common workshop with the system supplier in Vicksburg, first plans have been made towards the preparation of a LOMA workshop at the Smart Rivers 2011 conference in New Orleans on September 13, 2011.

## 4 BUSINESS STATUS

The following tables provide an overview of the resources spent to date in comparison to the numbers given in the Agreement.

Phase	Project Month	Amount spent	Amount planned	Deviation
1st Interim Report	4	<b>19.210,54</b>	30.677,00	-11.466,46
2nd Interim Report	7	<b>23.682,15</b>	46.954,00	-23.271,85
3rd Interim Report	10	<b>6.360,99</b>	22.677,00	-16.316,01
4th Interim Report	20		47.232,00	
Final Report	24		8.000,00	
<b>Total</b>		<b>49.253,68</b>	155.540,00	-51.054,32

 current reporting period

Table 4-1: Resource overview

Phase	Project Month	Labor Costs	International Travel	Domestic Travel	Indirect Costs	Amount spent	Amount planned	Deviation
1st Interim Report	4	7.890,23	5.129,80	1.866,42	4.324,09	<b>19.210,54</b>	30.677,00	-11.466,46
2nd Interim Report	7	9.737,61	5.977,76	2.837,52	5.129,26	<b>23.682,15</b>	46.954,00	-23.271,85
3rd Interim Report	10	4.119,30	0,00	0,00	2.241,70	<b>6.360,99</b>	22.677,00	-16.316,01
4th Interim Report	20						47.232,00	
Final Report	24						8.000,00	
<b>Total</b>		21.747,15	11.107,55	4.703,94	11.695,04	<b>49.253,68</b>	155.540,00	-51.054,32

 current reporting period

Table 4-2: Detailed resource overview

GENERAL COST CATEGORY DESCRIPTION	TOTAL PROJECT COST PLANNED	TOTAL PROJECT COST SPENT	PER CENT SPENT	PER CENT PROJECT TIME
Direct Costs				
Labor Costs	70.176,00	<b>21.747,15</b>	30,99	41,67
International Travel Costs	26.950,00	<b>11.107,55</b>	41,22	41,67
Domestic Travel Costs	19.790,00	<b>4.703,94</b>	23,77	41,67
Indirect Costs	38.624,00	<b>11.695,04</b>	30,28	41,67
<b>Total Costs</b>	155.540,00	<b>49.253,68</b>	31,67	41,67

**Table 4-3: Deviation of resources**

It can be seen, that actual costs are still behind the intended payment schedule. Nevertheless the used resources are reflecting the level of activities carried out so far. Facing the outstanding activities for the LOMA 2.0 project, it becomes evident that the work intense part of the project has just started at the end of this reporting period. It is expected that the current deviation from the payment plan will be compensated in the two last reporting periods.

From today's point of view no special adjustment measures are considered necessary.