

License Agreements, Licensees Upcoming Releases and Upcoming Training Classes

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RiverWare License MOU

- Original R&D funded by TVA, Reclamation
- RiverWare is made available to others in order to:
 - Contribute to more effective water management
 - Allow stakeholders to participate in operations/planning
 - Share the cost of software maintenance
- MOU between CU, Reclamation and TVA agreeing on terms of licensing Riverware to others (dated 1997 with updates in 2001, 2003)
- RiverWare is licensed by CU Office of Technology Transfer. License fees contribute to software maintenance.



Software Maintenance

- RiverWare is maintained on 2 platforms: Sun Solaris and Windows 2000/XP
- Annual cost is approx \$200,000
- In 2005 USBR and TVA will contribute about \$100K through contracts, remainder is funded through license revenues

Licensees – Reclamation Offices

Lower Colorado Region

LC Regional Office Yuma Area

Boulder Canyon Operations

Upper Colorado Region

UC Regional Office

Grand Junction Area

Provo Area Office

Durango Area

Albuquerque Area

El Paso Area

Mid-Pacific Region

Lahonton Basin Area Office (Carson City)

Fallon Field Office

Pacific Northwest Area

PN Regional Office – Boise

Ephrata Field Office

Upper Columbia Area

Yakima

Great Plains Region

GP Regional Office – Billings

Austin Area

Technical Services Center - Denver



Licensees – Federal Agencies

Corps of Engineers:

Albuquerque District

Little Rock District

Ft. Worth District

Omaha District

Kansas City District

Tulsa District

USGS – Albuquerque

Fish and Wildlife Service – Albuquerque

BIA – Farmington, Albuquerque

National Park Service – Black Canyon of the Gunnison

National Renewal Energy Lab (NREL)

Oak Ridge National Labs

Reno Federal Water Master

Indian Tribes – Jicarilla Apache; Jemez Pueblo

Licensees – Utilities

Tennessee Valley Authority

Lower Colorado River Authority (Texas)

Pacificorps

East Bay Municipal Utility District

Licensees – States, Water Districts, Authorities, Boards

States

Arizona DWR California – Colorado R. Board

Colorado WCB Montana DNRC

New Mexico ISC

Districts

Central Utah Water Conservancy District

Coachella Valley Water District (California)

Colorado River Water Conservation District (Colorado)

Metropolitan Water District of Southern California

Tarrant Regional Water District

Authorities

Lower Neches Water Authority

Southern Nevada Water Authority

Truckee Meadows Water Authority

New Jersey Water Supply Authority

Licensees – Consultants

Ayers Associates (Ft. Collins)

Brown and Caldwell (Seattle)

Freese and Nichols, Inc (Ft. Worth)

Hydrosphere Resource Consultants, Inc. (Boulder)

Keller-Bliesner Engineers, Inc. (Logan, UT)

Natural Resources Consulting Engineers (Ft. Collins)

Riverside Technology, inc. (Ft. Collins)

R.J. Brandes Company (Austin)

Stetson Engineers (San Rafael, CA)

Tetra-Tech, Inc. (Breckenridge, Albuquerque)

Wave Engineering, Nephi, Utah



Licensees – Universities

University of Arizona - SAHRA

New Mexico State University

Texas A&M University (at El Paso)

University of Nevada – Desert Research Institute

Licensees – Foreign

China Institute of Water Resources and Hydropower Research
(IWHR)

Public Works Research Institute (PWRI-Japan)

Upcoming Release Schedule

Version 4.6 – Target release date April 30, 2005

New Workspace/enhancements

Scenario Manager

Enhanced MRM and Single Run Control

Output single run rdf from batch mode

New selector

Performance enhancements

Link model runs to an external process from RBS

Engr: partition backwater; multiple canal seepage

Upcoming Release Schedule

Version 4.7 – Target release date November 30, 2005

New Policy editor (implemented for RBS and Optimization)

Accounting visualization

Optimization – addition of IP for refinement of hydropower solution

New DMI direct data access to DSS and infrastructure for other data sources
(possibly direct Excel output, esp. to GPAT)

MRM mode for iterative runs with RPL logic

Performance enhancements – model size

Statistical functions on single slots

SCT enhancements: “go-to” feature; integrated run status and diagnostics;
integrated DMI and file open/save menus

Diagnostic enhancements

Engr Methods

canal mass balance and evaporation

rule functions for scheduling headgate deliveries

target operations with elevation limits

pipe flow

inline pumping plants

COE hydropower method



Upcoming Training

Rulebased Simulation – March 9-11

At least 1 (probably 2) additional Intro and Rules classes this year

May – special training for CRSS-Lite (date, location TBD)

April or May – special training for URGWOM testers in Albuquerque

May or June – First Water Accounting class – for “testers”

FY06 – Optimization training class?