

BRAN History

4/22/2010

2010

- May. The BRAN partners celebrate the ten-year anniversary of the BRAN network.
- May. UCAR/NCAR completes a comprehensive review and update to labeling at BRAN fiber termination points.
- Apr. A BRAN extension from the UCAR FL to meet the BVSD backbone ring on 47th St is completed.

2009

- Jul. The first amendment to the BRAN Memorandum of Understanding is signed by the City of Boulder, UCAR, and CU to provide for BRAN access to fiber strands in the BVSD network and for construction of BRAN extensions from the BVSD network to the UCAR Foothills Lab and George Reynolds Branch Library.
- May. The BRAN partners meet formally to reach a final consensus on language for the first amendment to the BRAN MOU.
- Apr. The City of Boulder completes an amendment to its agreement with BVSD to gain access to an additional 20 strands in the BVSD west ring for the use of BRAN.

2008

- Dec. A BRAN extension from the GRB Library to meet the BVSD backbone ring on Table Mesa Dr is completed.
- Jun. The City of Boulder, BVSD, and BRAN agree on an equitable arrangement to provide BVSD fiber strands to BRAN. Work begins to amend the BRAN MOU.
- Apr. The BRAN Disaster Preparation and Recovery Plan is revised.
- Mar. An inventory of the BRAN spare parts at the 63rd St Water Treatment Plant is completed.
- Mar. City of Boulder completes an agreement with BVSD to trade access conduit for fiber optic strands.
- Feb. Discussions are active between the BRAN partners and BVSD to give BRAN access to BVSD fiber strands.
- Feb. The complete BRAN access point inspection started in October 2006 is completed.

2007

- Dec. City of Boulder reaches a settlement with AUS for the July 2006 BRAN fiber damage resulting in partial repayment of repair costs by AUS.
- Nov. BRAN conduit is exposed and moved at 28th and Pearl to accommodate a street-widening project.
- Sep. City of Boulder participates in mediation to settle a dispute with AUS over the July 2006 BRAN fiber damage.

- Jun. A concrete cap is installed on the BRAN conduit near Baseline Rd and 27th Way after it is determined that the conduit is too shallow.
- May. Management Committee begins discussion of opportunities presented by an imminent BVSD fiber network project.
- Apr. Underground Consulting Solutions begins work as contract utility locator.
- Mar. Following a study, the Technical Committee agrees to increase the BRAN emergency reserve from \$75,000 to \$150,000 to accommodate a large fiber damage event.

2006

- Dec. City of Boulder seeks payment from locator AUS for damages sustained in the missed locate in July 2006.
- Oct. A City-wide inspection of all BRAN access points begins.
- Oct. A formal transition is made by the Technical Committee from using CAD diagrams for BRAN outside plant documentation to using GIS. City of Boulder creates a GIS map book for BRAN.
- Sep. The BRAN conduit bank is exposed at NIST during large-scale excavation for a steam system.
- Jul. An error by the locating contractor AUS results in damage to the BRAN fiber cable near 38th and Arapahoe. Broken conduit are spliced and a new fiber splice enclosure is installed in a nearby manhole.
- Jun. Emergency response contract for BRAN fiber is signed with Sturgeon Electric.
- May. NIST splices two of its BRAN fiber strands between NIST and the JILA labs at CU to make a continuous path free of patch cables, decreasing losses and reflections associated with patch cables for a scientific experiment.
- Mar. American Utility Services (AUS) begins work as a contract locator.
- Feb. The BRAN spare parts inventory is moved to the 63rd St Water Treatment Plant.

2005

- Dec. City of Boulder releases the RFI for a new utility locating contractor.
- Nov. The City of Boulder completes a new GIS-based map book for use by the utility locating contractor in locating conduit and fiber.
- Aug. City of Boulder completes a spur to the Yards (5050 E Pearl St). All BRAN fiber strands at 47th St and Valmont Rd are cut and re-spliced to accommodate the spur.
- Aug. City of Boulder distributes a draft RFI for utility locating contractors to the Technical Committee for review.
- Aug. Technical Committee discusses costs and benefits of various BRAN network expansion opportunities including a South Loop.
- Jun. The first annual emergency response contract for the BRAN fiber is signed with Guarantee Electrical Contracting.
- May. BRAN spare parts are purchased by the Technical Committee and stored at the 75th St Wastewater Treatment Plant.

- May. Technical Committee begins evaluation of BRAN network expansion opportunities.
- Apr. BRAN cable/conduit is relocated slightly on the CU campus to accommodate construction of a new Law School building.
- Apr. The Technical Committee identifies some evidence of inadequate performance and documentation management by the utility locating contractor used for BRAN. Planning for a replacement contractor begins.
- Apr. Annual BRAN access point inspection completed including the bolting of handhole lids.
- Jan. BRAN conduit is relocated at Broadway and Table Mesa Dr and on Pearl St between 28th St and 30th St to accommodate street construction.

2004

- Nov. A BRAN Disaster Preparation and Recovery Plan is completed by the Technical Committee and approved by the Management Committee.
- Sep. The Technical Committee tours the Level 3 PoP.
- Jun. A new spreadsheet format for BRAN fiber splice and termination documentation is completed by the City of Boulder including a network-wide update.
- May. A BRAN Technical Information document is completed by UCAR to describe BRAN network materials and standards.
- May. The first regular inspection of BRAN access points with splice enclosures is completed.
- Apr. Revisions and updates to the master set of original BRAN CAD diagrams are completed by the City of Boulder so that they include spurs and changes since BRAN was completed.

2003

- Sep. CU completes a spur to a facility on Exposition Dr (1777 Exposition Dr).
- Aug. Technical Committee agrees to perform annual inspections of BRAN access points (handholes, manholes) with splice enclosures and inspection of all BRAN access points every five years.
- Aug. Technical Committee agrees to standards for maintenance of a master set of BRAN CAD diagrams.
- Mar. City of Boulder begins documenting its fiber optic network, including BRAN, in a GIS.

2002

- UCAR/NCAR completes a BRAN fiber extension to the Level 3 (ICG) PoP.
- Apr. City of Boulder completes a fiber tie between the BRAN and Level 3 fiber cables at the corner of 47th St and Pearl Pkwy to complete a fiber path from the Public Safety Building to the Yards (5050 E Pearl St).

2001

- Dec. City of Boulder completes a spur to Children, Youth, and Families (2160 Spruce St).
- Jan. City of Boulder completes a splice to the BRAN cable on Pearl St near 30th St to complete a fiber path to the Iris Center (3198 Broadway).

2000

- City of Boulder completes spur to the George Reynolds Branch Library (3595 Table Mesa Dr).
- City of Boulder completes spur to the Public Safety Building (1805 33rd St).
- Jul. BRAN Technical Committee develops emergency response procedures.
- May. A reception hosted by UCAR at the ML recognizes the completion of the BRAN project. Representatives from the cooperating organizations and engineering teams come to NCAR to celebrate BRAN's success.
- Apr. BRAN network construction and testing are completed.

1999

- Jul. Construction of the BRAN network begins.
- May. BRAN Memorandum of Understanding is signed by the City of Boulder, UCAR, and CU.
- Feb. BRAN network design is actively underway.

1998

- Engineering design and preparation of bid documents for BRAN are completed.
- Memorandum of Agreement is signed by members of the BRAN Executive Group (representing UCAR/NCAR, CU, NOAA, NIST, and the City of Boulder) endorsing the vision and authorizing the City to prepare a final design, final cost estimates, and bid documents.
- May. A feasibility study culminates in a memorandum from the BRAN Working Group to the BRAN Executive Group outlining plans for a \$1.1M fiber optic network that is "very desirable, feasible, and affordable."

1996-1998

- Major sections of the City of Boulder conduit system are constructed in cooperation with ICG (later used as part of the BRAN project).