

# Turner Broadcasting, Atlanta [US]



## Turner Broadcasting chooses Barco for all-digital Network Operations Center

Turner Entertainment Group, a division of Turner Broadcasting System, built a 198,000-square-foot broadcast facility at its Atlanta headquarters. The Network Operations Center, comprising six floors, is the new home for broadcast operations for all existing and future networks.

Turner Entertainment Network Operations Center in Atlanta, GA is the largest all-digital facility of its kind. The center provides a wide-range of 24-hour functional support activities for the Turner Broadcasting System, Inc.'s Entertainment Networks which includes TBS Superstation, WTBS-17, TNT East and West, Cartoon Network East and West, Turner Classic Movies, Boomerang, and Turner South, as well as nine Latin American networks.

Barco Control Rooms provided state-of-the-art digital control room display solutions for Turner Broadcasting's newest operations facility. Fifty Barco iStudio display systems were installed in the Turner Entertainment Networks' master control rooms for monitoring all network air functions.

**BARCO**

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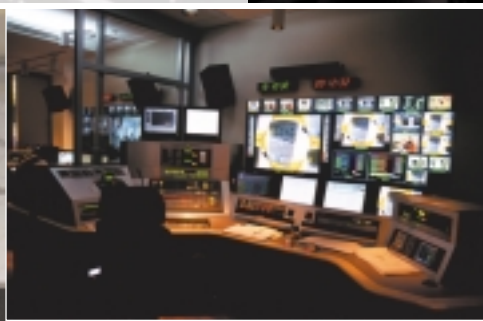
Turner Broadcasting System's 198,000-square-foot broadcast facility at its Atlanta headquarters.



The outgoing TOC is used to monitor all outgoing feeds and return confidence feeds. It utilizes 3 OverView cPR84 display units incorporating 3-panel 1280x1024 pixel LCD technology with 3 HYDRA controllers.



Viewable from the lobby of the Network Operations building, a massive wall of curved glass encloses the Transmission Operation Center (TOC).

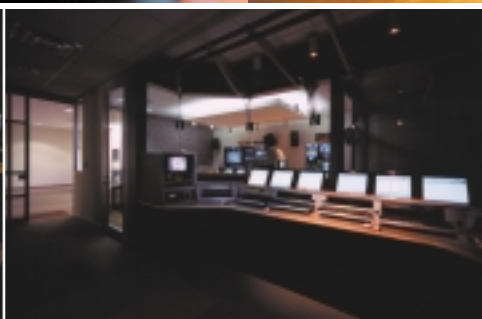


### **Future-proof infrastructure**

With its high-definition technology configurations, the all-digital Network Operations Center offers space for network expansion and connectivity. The current 18 feeds originating from the network operations center are conveniently centralized on the first floor of the six-story building. With their associated equipment, the current 18 feeds occupy 10 active control rooms.



The incoming TOC is generally dedicated to the reception of live feeds. Operators here coordinate satellite uplinks and feed signals to the appropriate BOC. This area features three quality control stations utilizing 6 OverVIEW mPG50 display units and 4 HYDRA controllers.



The Broadcast Operations Centers (BOCs) are isolated from one another and are divided among four separate "pods" with four control rooms each, i.e. one pod per network. Each pod features a spacious, glass-walled, central supervisor's area for overseeing operations. From left to right: Cartoon Network Control Room, Turner Classic Movies Control Room, Superstation Control Room and central supervisor's area.

### Integrated service monitoring in the BOCs

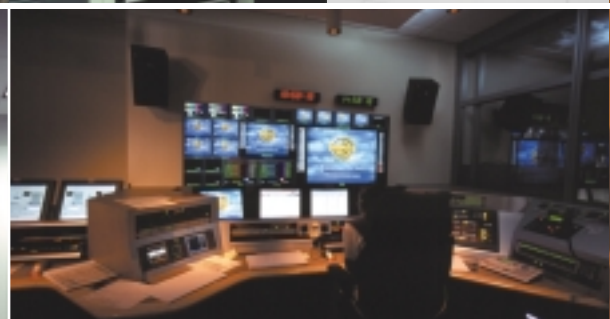
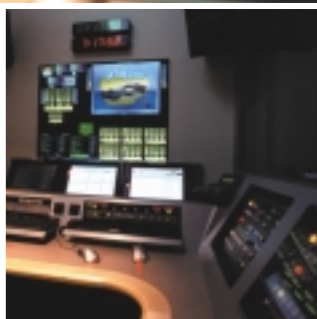
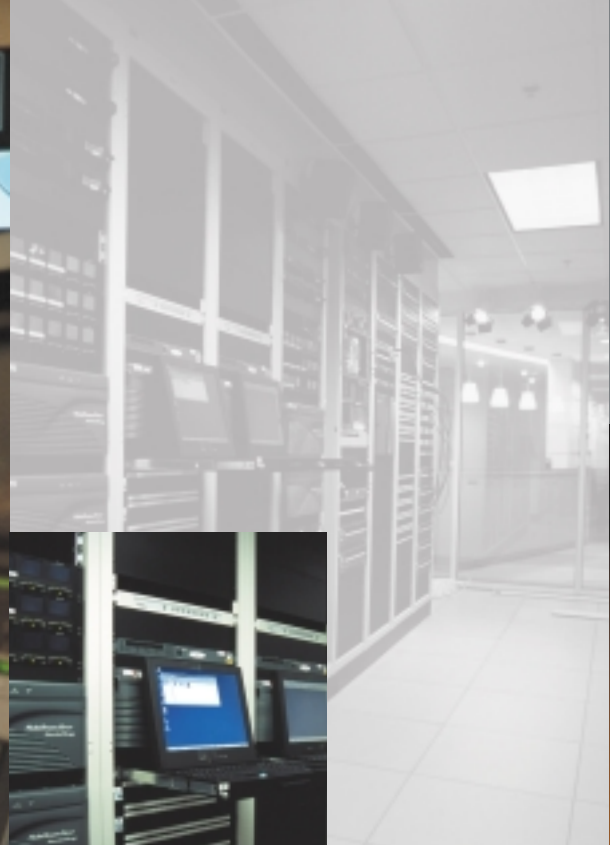
The 10 active control rooms, or Broadcast Operations Centers (BOCs), are comfortably isolated from one another and are divided among four separate "pods"; i.e. one pod per network, each having full redundancy capabilities. In case of a major equipment or software failure in any of the pods, the others will remain unaffected due to this isolation. Two 50-inch Barco rear-projection displays round out each control room to monitor the various inputs and what is happening on air. Turner uses Barco's iStudio to monitor the service insertion of the daily programs scheduled and their associated additional insertions. Each pod uses the HYDRA in dual output mode and two Barco OverVIEW mPG50 display units incorporating 3-panel 1024x768 pixel LCD technology. The TBS West network uses Barco's latest OverVIEW mDG50-DL display units in

conjunction with Barco's new HYDRA COMPACT controller which offers the ability to view feeds in HD by simply changing a card within the system. The OverVIEW mDG50-DL features DLP™ technology and incorporates – among other benefits - Barco's proprietary Auto-Switch Redundant lamp system and Auto Contrast and Brightness Correction System.

### Effective monitoring of incoming and outgoing feeds

Whereas the BOC pods take up a large portion of the first floor, another section crucial to effective operations is also located here, namely the Transmissions Operation Center (TOC). The TOC, which can be viewed from the lobby of the Network Operations building, is divided into two sections: incoming and outgoing. The incoming section is generally dedicated to the reception of live feeds, primarily for all sporting events

and any other live broadcast of the Turner networks. This area features three quality control stations utilizing 6 OverVIEW mPG50 display units and 4 HYDRA Controllers allowing operators to coordinate the satellite uplink feeds originating at the venue sites, control the downlinks at the Turner Teleport dish farm, and feed the incoming signals to the correct control room. The outgoing side features large Barco screens along the entire front wall with numerous windows assigned to different feeds. This area is used to monitor all of the networks outgoing feeds and return confidence feeds. It utilizes 3 OverVIEW cPR84 display units incorporating 3-panel 1280x1024 pixel LCD technology with 3 HYDRA controllers providing operators with a final look at a signal before it is sent out of the building. A signal is sent to the satellite 23,000 miles up, and a return signal comes back to the outgoing TOC.



### Adding value with Barco's iStudio

"Our selection group agreed that the Barco displays supplied us with the high quality, yet easily maintained system for monitoring the 18 Turner Entertainment Networks," stated Stephanie Edwards, Communications Manager, Turner Entertainment Operations, "We looked at many other products, but kept coming back to the Barco product because we strongly felt that it could best meet our needs."

The iStudio solution offers infinite monitoring configurations for Turners present service needs and is easily expandable for their future broadcast requirements. The new system provides Turner a complete quality assurance solution with its advanced integrated service monitoring features, which include video, audio and related data services. These features are fully configurable and selectable by Turner for a uniquely definable quality analysis solution.

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