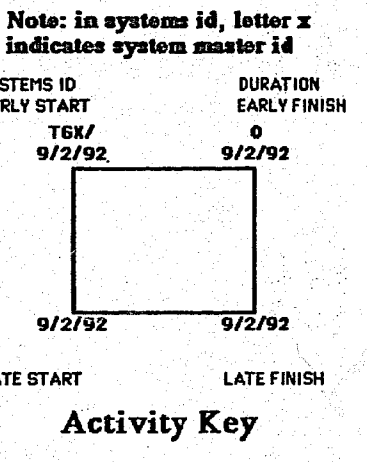
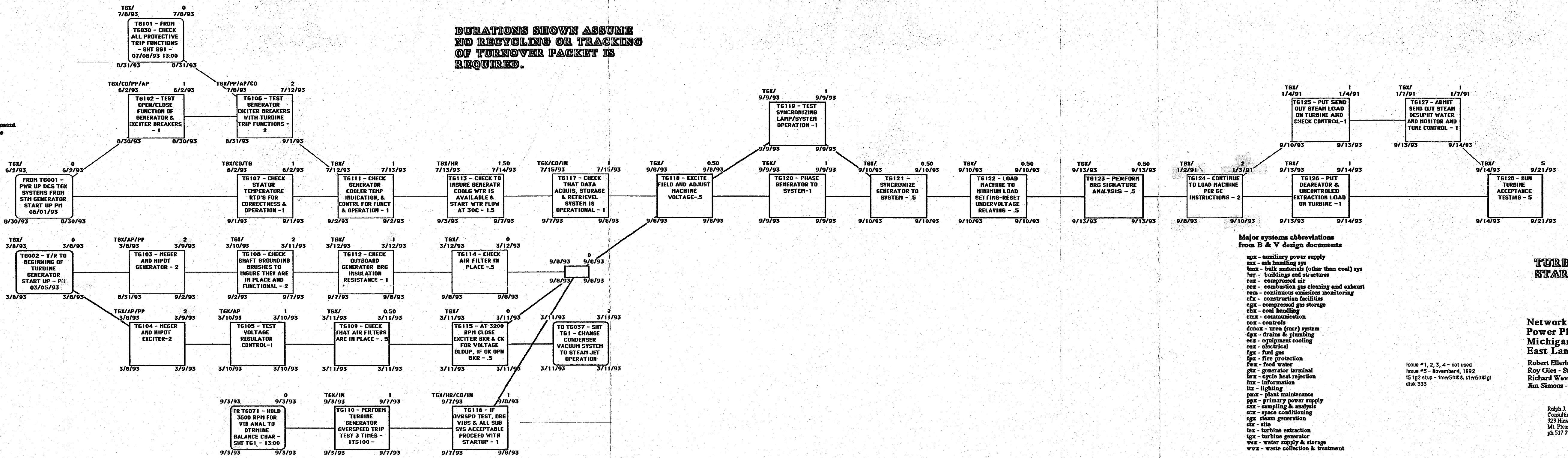


**TURBINE GENERATOR START UP (FOX)**

Beginning of start up is the point where the start up manager receives the initial turnover card (this is the card to be given to Roy Chis by Jim Simons that signifies all construction contract materials and equipment making up the system have been put in place in accordance with the construction contract requirements.)

NOTE: Beginning of turbine generator start up determined by contract date for completion of turbine generator shipments - per 03/25/93. See list of contract dates.



- Major systems abbreviations from B & V design documents
- axp - auxiliary power supply
  - axh - ash handling sys
  - bxm - bulk materials (other than coal) sys
  - bxr - buildings and structures
  - ccx - compressed air
  - ccz - combustion gas cleaning and exhaust
  - ccm - continuous emission monitoring
  - chc - construction facilities
  - cxg - compressed gas storage
  - chr - coal handling
  - cxk - communication
  - cox - controls
  - dxm - urea (fwr) system
  - fxp - drains & plumbing
  - fxz - equipment cooling
  - gax - electrical
  - fxg - fuel gas
  - fxp - fire protection
  - fxv - fuel valve
  - gex - generator terminal
  - bxr - cycle heat rejection
  - ixz - information
  - lxz - lighting
  - pxm - plant maintenance
  - pxp - primary power supply
  - cxz - sampling & analysis
  - cxz - space conditioning
  - gax - steam generation
  - fxz - steam
  - fxz - turbine extraction
  - gax - turbine generator
  - vxz - water supply & storage
  - wxz - waste collection & treatment

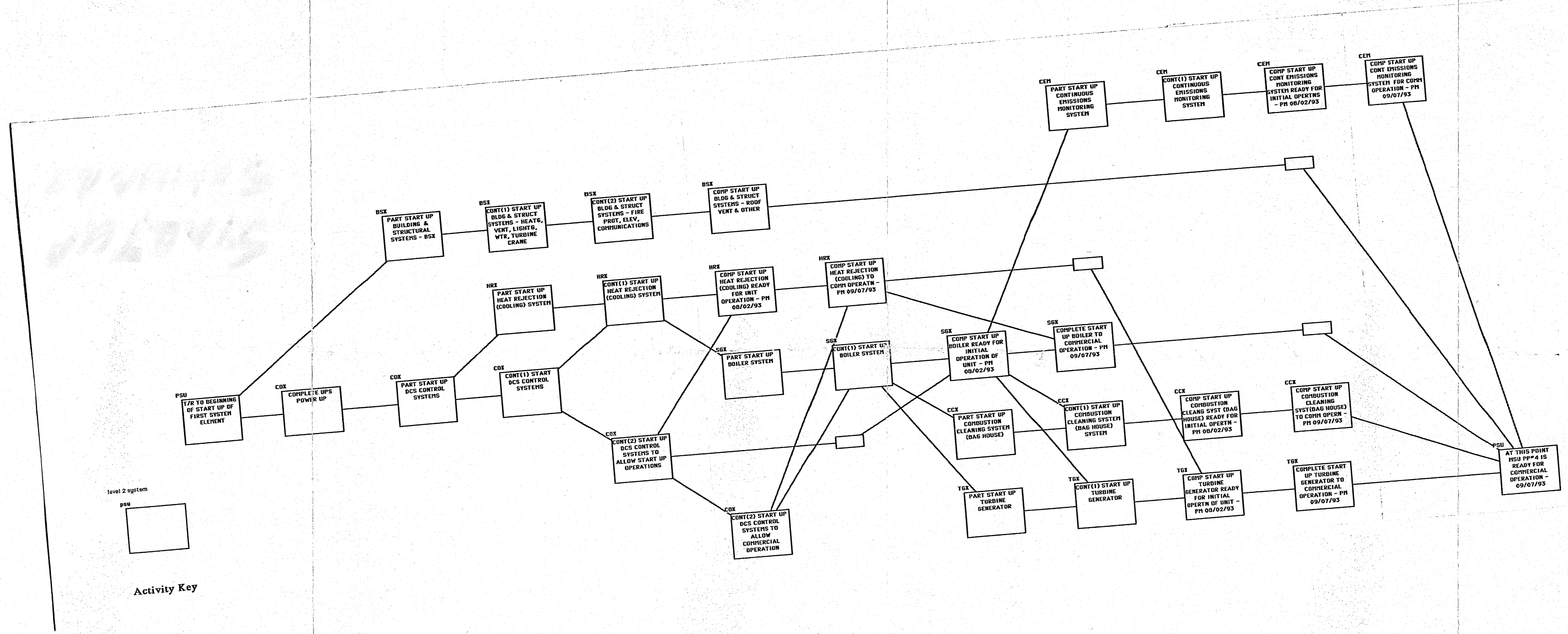
**TURBINE GENERATOR START UP (FOX)**

Network Model for T. B. Simon  
 Power Plant Unit 4  
 Michigan State University  
 East Lansing, Michigan  
 Robert Ellertson - Director of Utilities  
 Roy Chis - Start Up Manager  
 Richard Weaver - Construction Superintendent  
 Jim Simons - Construction Project Representative

Issue #1, 2, 3, 4 - not used  
 Issue #5 - November 4, 1992  
 IS Upd Stop - Inv 50X & 116001  
 csa 333

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• Summary of total startup sequencing

Network Model for T. B. Simon  
Power Plant Unit 4  
Michigan State University  
East Lansing, Michigan

Roy Oles - Start up manager  
Jim Simons - Construction Project Representative

Ralph J. Stephenson, PE/PC  
Consulting Engineer  
233 Edwards Drive  
Mt. Pleasant, Michigan 48858  
ph 517 772 2327

Issue #1 - not used  
Issue #2 - October 6, 1992  
Issue #3 - October 9, 1992  
13 total startup seq. emt  
0229

Sh #5

STARTUP  
SUMMARY



