Conrail Delair Bridge Presentation

Delaware Valley Regional Planning Commission

January 17, 2003
Conrail Delair Bridge Update

- Built in 1896
- 4,170 feet long
- Vertical lift movable bridge of unique pin connected truss construction
- 10 mph freight, 30 mph passenger speeds
- 263,000 lb. rating
Conrail Delair Bridge Update

- Only freight access route into South Jersey
- 4 CSXT trains per day
- 4 Norfolk Southern trains per day
- 2 Conrail trains per day
- 28 passenger trains per day
- 12 bridge openings per day
Conrail Delair Bridge Update

• Reserve fund was established to address reliability concerns with the Delair Bridge

• Structural analysis completed on 9/11/02 determined need for both short term and long term investment

• Short Term – 11 priority repairs to begin in 2003 – funded by the Delair Bridge Reserve Fund

• Long Term – 60 approach spans on the Conrail single track require replacement in 8-10 years – not funded

• 286K is achievable during short term investment
Conrail Delair Bridge Next Steps

- **Conrail**
  - 286K study of Beesley’s Point and Penns Grove Secondary will be completed by Spring 2003
  - Work with NJDOT’s Rail Freight Assistance Program on future capacity initiatives in South Jersey

- **Norfolk Southern/CSX**
  - Develop the priority and timing for specific line capacity upgrades for 286K in South Jersey area

- **New Jersey Transit**
  - Joint involvement in future planning of capital bridge rehabilitation
DELAIR MOVABLE BRIDGE TRUSS SPANS

PIN CONNECTED TRUSS SPANS BUILT 1896

LIFT SPAN BUILT 1961

TYPICAL PIN CONNECTIONS
TYPICAL APPROACH SPANS

CONRAIL DECK GIRDER SPANS

NJT DECK GIRDER SPANS

COMMON CROSS GIRDER

CR TYPICAL APPROACH SPANS

NJT COMMON STEEL TOWER BENTS

COMMON CONCRETE BENT BEARINGS

TYPICAL APPROACH SPANS

CONRAIL DECK GIRDER SPANS

NJT DECK GIRDER SPANS

COMMON CROSS GIRDER

NJT