PTI Certification Programs
A Reflection

Larry B. Krauser
Vice President, General Technologies, Inc.
Chair, PTI Certification Advisory Board
The Original Programs

• 1989 – PTI Unbonded Plant Certification

• 1998 – PTI Unbonded Field Certification
PTI Unbonded Plant Certification

- Discussions started in mid 1980’s
- Development of Manual
- Program initiated in 1989
- Originally – 13 plants certified
- Today we have 55 plants certified
- Peak we had 67 plants certified
PTI Unbonded Plant Certification

Most Memorable Action

ANSI

Submittal

Approval

Continuation
## PTI Unbonded Plant Certification

<table>
<thead>
<tr>
<th>Type</th>
<th>Category A</th>
<th>Category B</th>
<th>Category C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type I - Extrusion and Fabrication Plant</strong></td>
<td>Both Standard and Encapsulated Systems</td>
<td>30</td>
<td>3</td>
</tr>
<tr>
<td>Category A</td>
<td>Both Standard and Encapsulated Systems</td>
<td>30</td>
<td>3</td>
</tr>
<tr>
<td>Category B</td>
<td>Only Standard Systems</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Category C</td>
<td>Only Encapsulated Systems</td>
<td>2</td>
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<tr>
<td><strong>Type II - Fabrication Only Plant</strong></td>
<td>Both Standard and Encapsulated Systems</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>Category A</td>
<td>Both Standard and Encapsulated Systems</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>Category B</td>
<td>Only Standard Systems</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Category C</td>
<td>Only Encapsulated Systems</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Type III - Extrusion Only Plant (No Fabrication)</strong></td>
<td>Extrusion Only Plant</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Extrusion Only Plant</td>
<td>Extrusion Only Plant</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>Totals</td>
<td>55</td>
<td></td>
</tr>
</tbody>
</table>
PTI Unbonded Field Certification

• Discussions started in early 1990’s
• Development of Workbook and Workshop Program
• First workshop – Nov. 17-18, 1998 in Chicago
• Level 1 – Field Fundamentals
• Instructor was Joe Harrison
• 34 Attendees
PTI Unbonded Field Certification

1999 – Field Procedures Manual and Ironworker Certification Subcommittee of Unbonded Tendons Committee was established.

Members:

Larry Krauser, Chair
Joe Harrison
Andy Kochis

Thomas Mathews
Darrell Parks
Alan Rodriguez
PTI Unbonded Field Certification

PTI Board of Directors Meeting – October 2000

Future Vision of the Program

– Have different Levels of Certification
– Present more effective Workshops
– Expand our pool of Presenters
– Handling Special Requests for Certification
– Make a profit with the program so we can advertise
PTI Unbonded Field Certification

PTI Board of Directors Meeting – October 2000

“We recommend that the PTI Board of Directors approve the International Association of Bridge, Structural, Ornamental and Reinforcing Iron Workers Post-Tensioning Training Program per the recommendations outlined in the letter dated September 28, 2000, to Raymond Robertson at the Union. This Post-Tensioning Training Program is recognized to fulfill the PTI Level 1 training requirements and accordingly persons who have successfully completed this course are eligible to take the PTI Level 1 Exam. This Course Accreditation will be for a three year mutually renewable term.”
PTI Unbonded Field Certification

Most Memorable Meeting
September 10-11, 2001

Attendees:
Larry Krauser
Andy Kochis
Thomas Mathews
Russ Price
Jim Rogers
Alan Rodriguez
Slava Tkachuk
### PTI Unbonded Field Certification

<table>
<thead>
<tr>
<th>Category</th>
<th>PTI</th>
<th>Union</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1 Unbonded PT - Field Installation</td>
<td>1,377</td>
<td>1,174</td>
<td>2,551</td>
</tr>
<tr>
<td>Level 2 Unbonded PT - Ironworkers</td>
<td>42</td>
<td>414</td>
<td>456</td>
</tr>
<tr>
<td>Slab-on-Ground</td>
<td>54</td>
<td></td>
<td>54</td>
</tr>
<tr>
<td>Level 2 Unbonded PT Inspector</td>
<td>385</td>
<td></td>
<td>385</td>
</tr>
<tr>
<td>Level 1 Bonded PT - Field Installation</td>
<td>544</td>
<td>65</td>
<td>609</td>
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<tr>
<td>Level 2 Bonded PT - Field Specialist</td>
<td>187</td>
<td>12</td>
<td>199</td>
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<tr>
<td>Totals</td>
<td>2,589</td>
<td>1,665</td>
<td>4,254</td>
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</tbody>
</table>
PTI Certification Programs

• Certification Committee Established 2003
• Initial Subcommittees
  – Certification of Plants Producing Unbonded Tendons
  – Training and Certification of Field Personnel for Unbonded Post-Tensioning
  – Training and Certification of Field Personnel for Bonded Post-Tensioning
PTI Certification Programs

• Certification Advisory Board Established 2011
• Initial CAB Committees:
  – CRT 10 (PCSC) – PC Strand Certification
  – CRT 20 (UTPC) – Unbonded Tendon Plant Certification
  – CRT 30 (UFPC) – Unbonded PT Field Personal Certification
  – CRT 40 (BFPC) – Bonded PT Field Personal Certification
PTI Certification Programs

• Current active CAB Committees:
  – CRT 20 (UTPC) – Unbonded Tendon Plant Certification
  – CRT 30 (UFPC) – Unbonded PT Field Personal Certification
  – CRT 40 (BFPC) – Bonded PT Field Personal Certification
  – CRT-50 (SOGEC) – Slab-on-Ground Geotechnical Engineers Certification
  – CRT-60 (RRSFPC) – Repair, Rehabilitation and Strengthening Field Certification
  – CRT-70 (GPTQC) – PT Systems Qualification
PTI Certification Programs

• 2016 Reshuffle of CAB
• Multiple Task Groups
• Proposed Subcommittees
  – CRT-10 Field Personnel Certification (New) (*TG-Unbonded PT; TG-Bonded PT; TG-Repair, Rehabilitation & Strengthening*)
  – CRT-20 Unbonded Tendon Plant Certification
  – CRT-70 PT System Qualification Testing and Certification
PTI Certification Programs

Today

• Programs are progressing into the future.
• Programs have fantastic participation.
• Programs are a major part of PTI:
  – Over 50% of 2016 Budgeted Revenues,
  – Provide a significant amount of operating surplus to the institute.
Thank you for your Attention!

Questions?