

Baseline Inspection Preparation and Documentation (BIPD) Trends

Steve Campbell

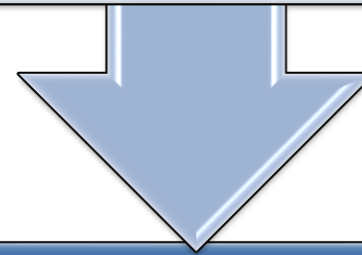
Amar Patel

Sarah Obadina

Industry Comments

During the RIC, industry provided a comment that we should continue to look for efficiencies with inspection

They specifically cited reducing inspection hours and indicated an increasing trend in baseline inspection prep/doc hours



Data Analysis

Determine whether industry claims were accurate

BIPD Definition in Cost Activity Code (CAC) system

Time spent preparing for baseline inspections including:

- Inspection plan development
- Information requests
- Licensee discussions
- Review information in preparation for performing assigned inspection activities
- Research
- Attending a briefing from resident inspectors
- Badging / site access, including obtaining dosimetry and whole-body count
- Entrance/exit meetings

Time spent documenting inspection results including:

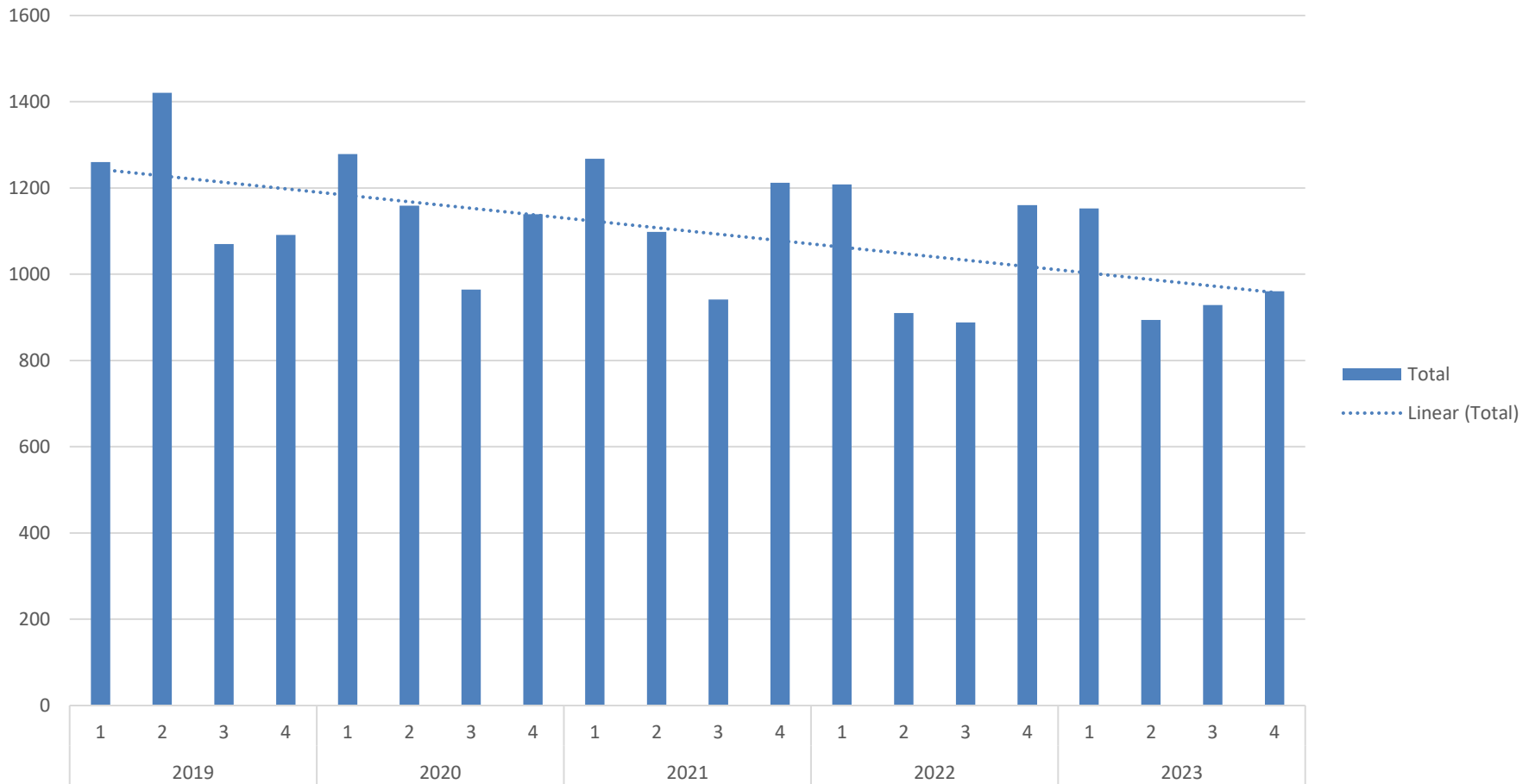
- Writing inspection reports
- Review of report inputs
- Reviewing reports for final signature
- Certifying reports and troubleshooting
- Reviewing RPS data to ensure accuracy of information for associated inspection report

Process

- Cost Activity Codes (000473)
 - Collected data for 2019-2023
 - Included decommissioned sites (while operating) and sites under construction
 - Indian Point, Three-Mile Island, Oyster Creek, Duane Arnold, Palisades, Vogtle 3&4, Pilgrim
 - Data Analysis
 - All inspections
 - Individual team Inspections (Biennial PI&R, DBAI/CETI, FEI)

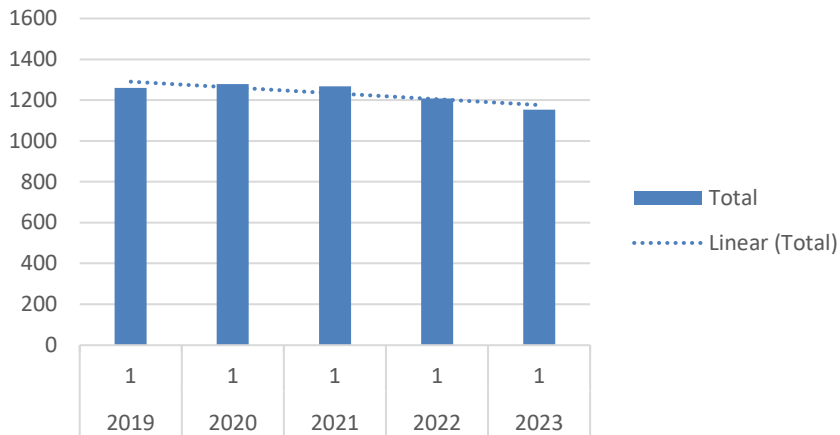
All BIPD per site

Five-year Trend All BIPD for All Regions per site

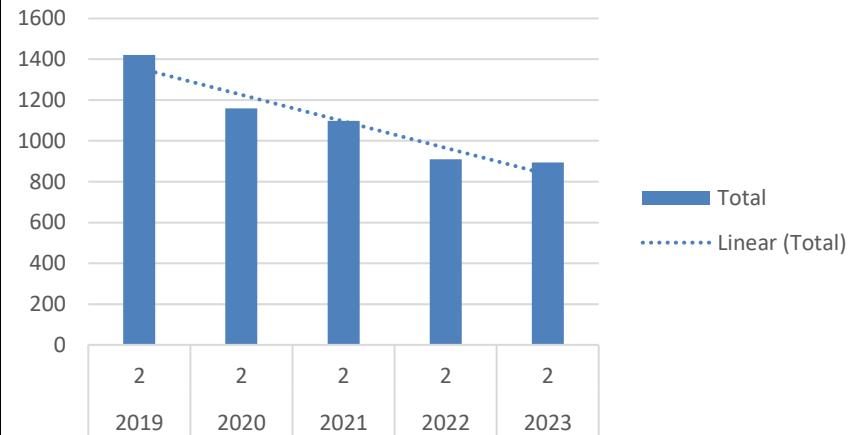


All BIPD by Region per site

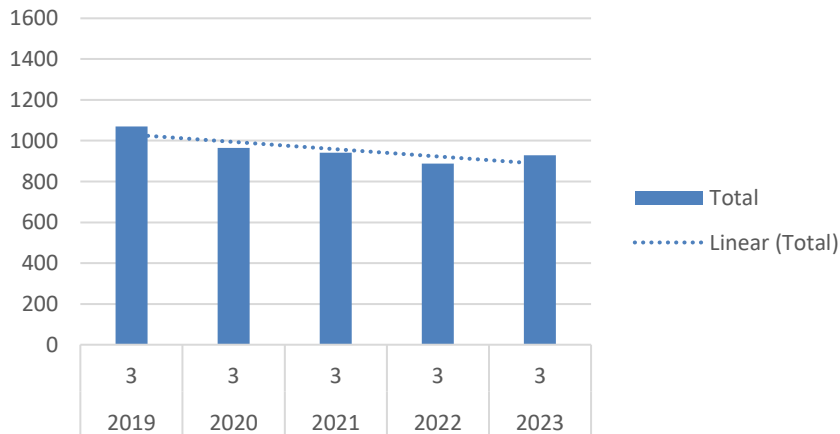
Five-year Trend All BIPD for Region 1 per site



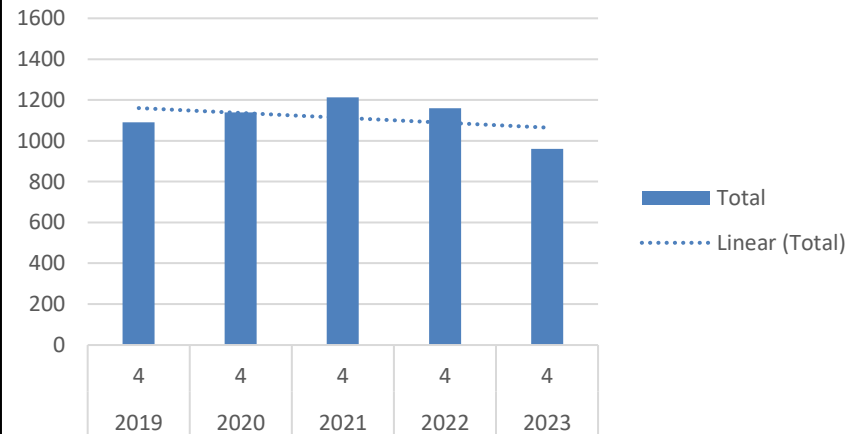
Five-year Trend All BIPD for Region 2 per site



Five-year Trend All BIPD for Region 3 per site



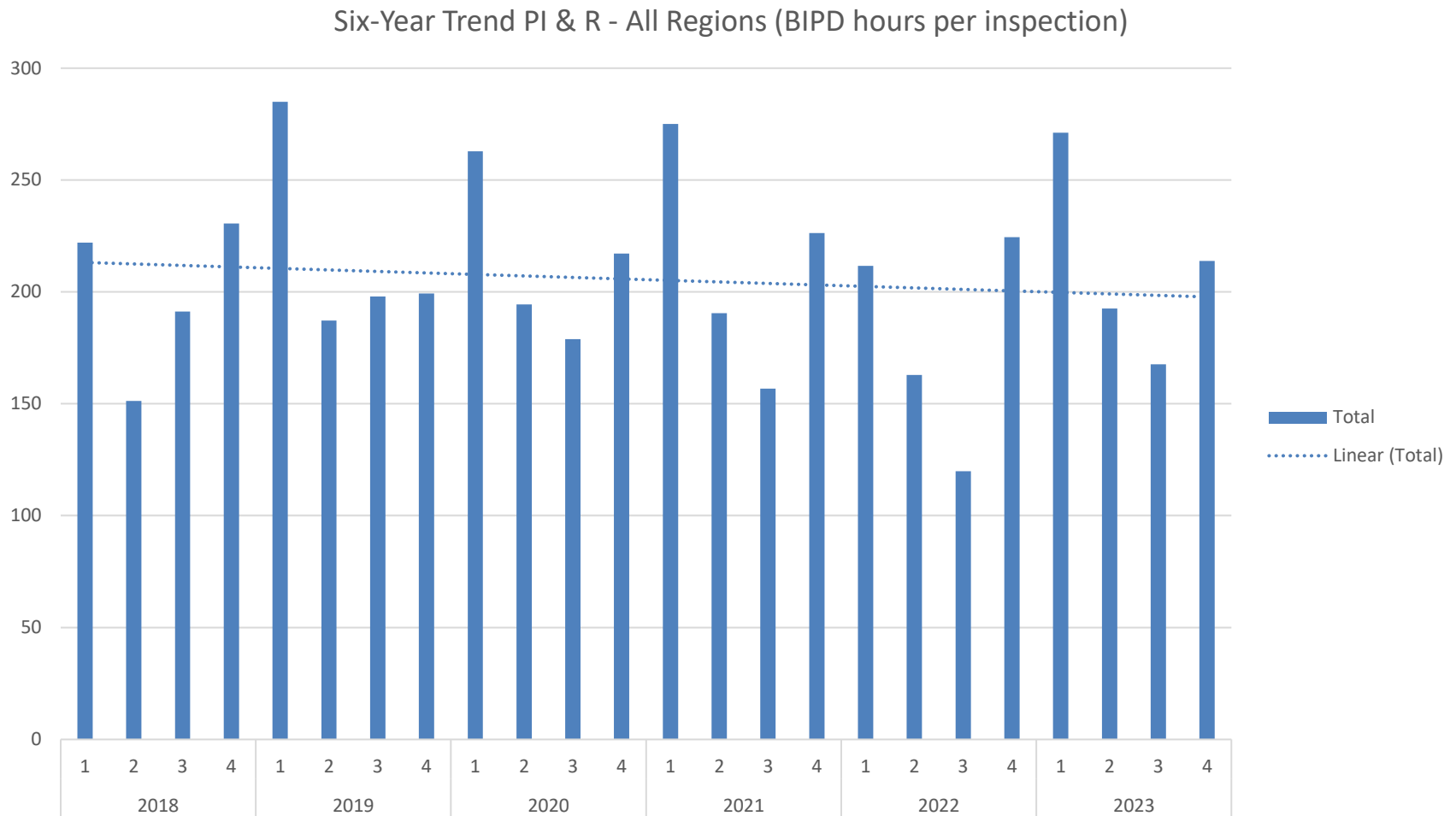
Five-year Trend All BIPD for Region 4 per site



All inspections

- Summary
 - Overall downward trend
 - Examples: Temporary Instructions (TIs), Allegation follow-up, quarterly inspection reports, supplemental inspections, special inspections
 - Normalized by number of sites per region

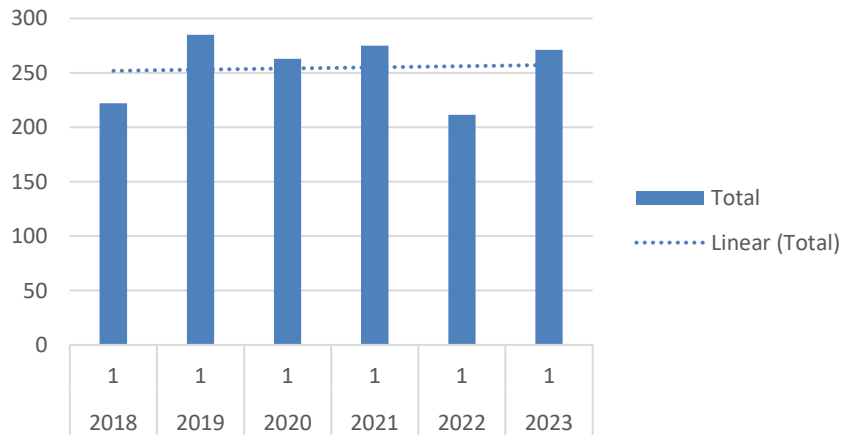
Biennial Problem Identification and Resolution (PI&R) – 6-yr trend



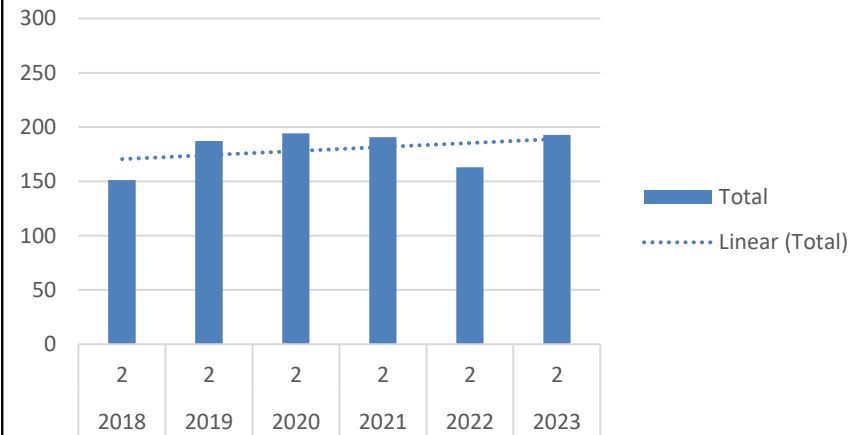
Biennial PI&R by Region

(Hours per inspection)

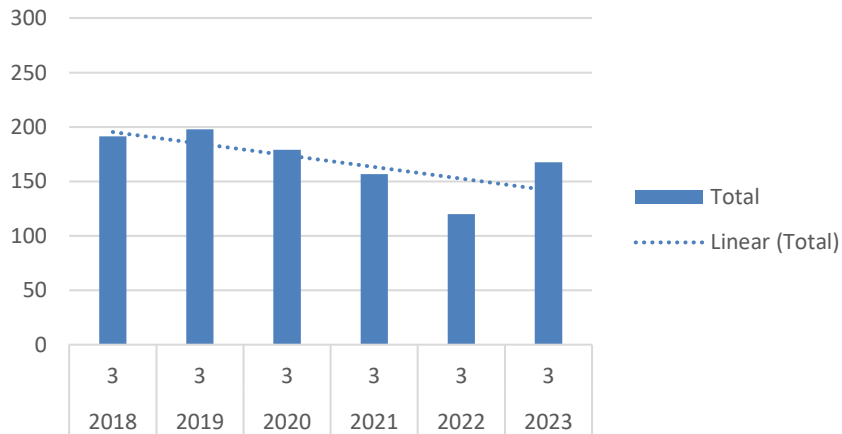
Six-Year Trend PI & R – Region 1



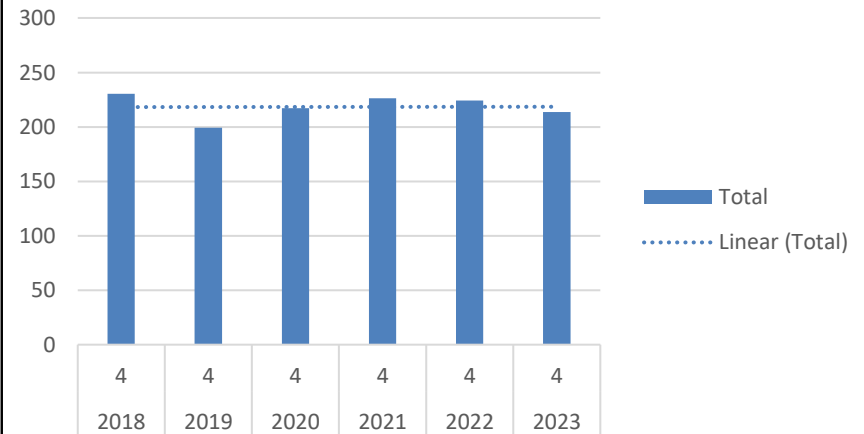
Six-Year Trend PI & R – Region 2



Six-Year Trend PI & R – Region 3



Six-Year Trend PI & R – Region 4



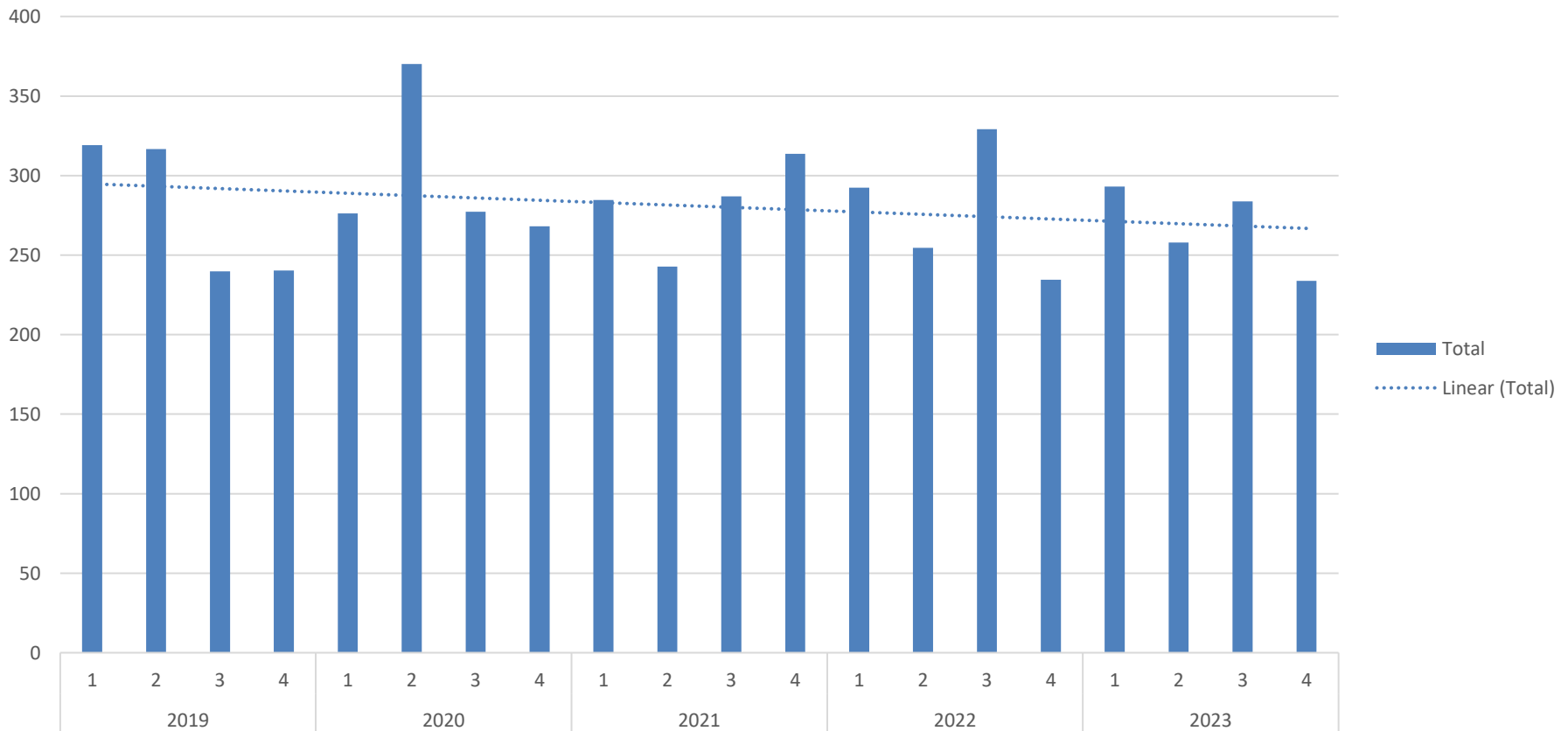
Biennial PI&R

- Summary
 - Downward trend overall for all regions the last six years
 - Note:
 - Data normalized by number of inspections per year
 - Region 1 and 4 trends were relatively flat
 - Region 2 had a slight increase
 - Region 3 had a decreasing trend

ENGINEERING INSPECTIONS

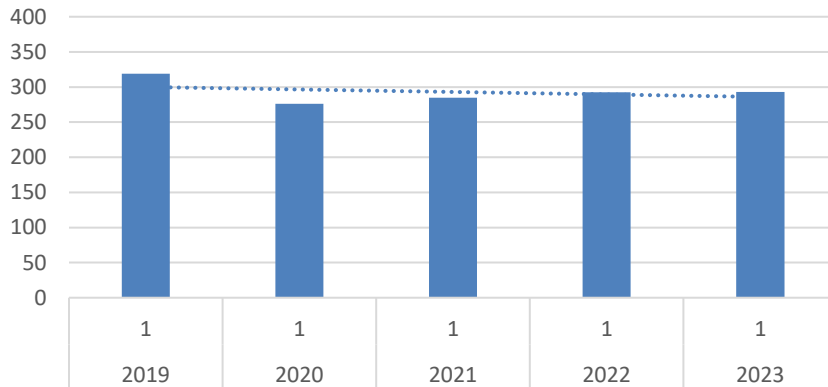
All Engineering Inspections BIPD 5-yr review

Five-year Trend All Engineering Inspections BIPD - All Regions

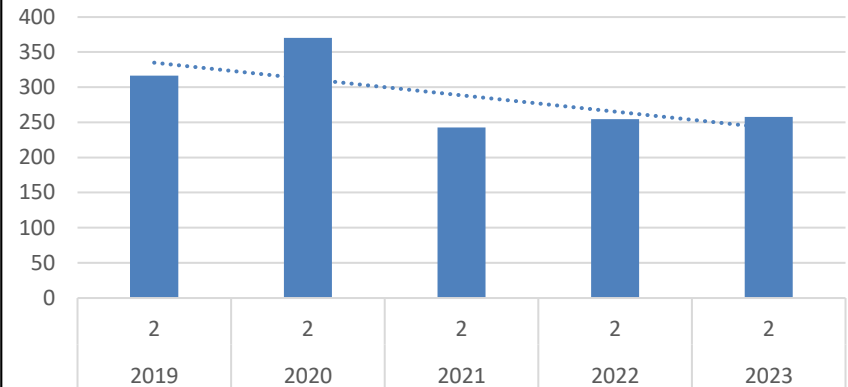


All Engineering BIPD by Region

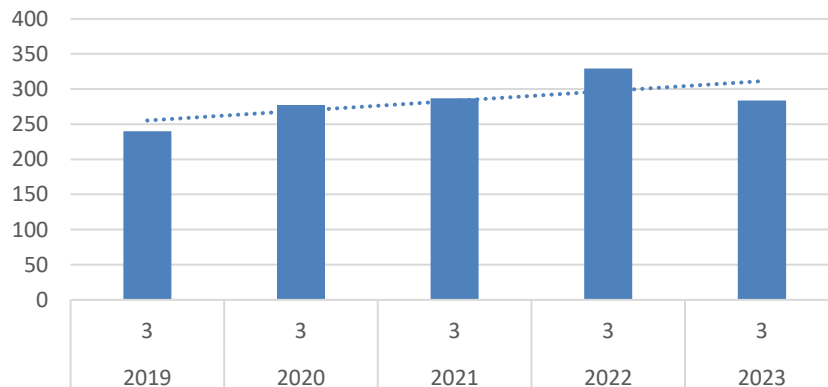
Five-year Trend All Engineering BIPD –
Region 1



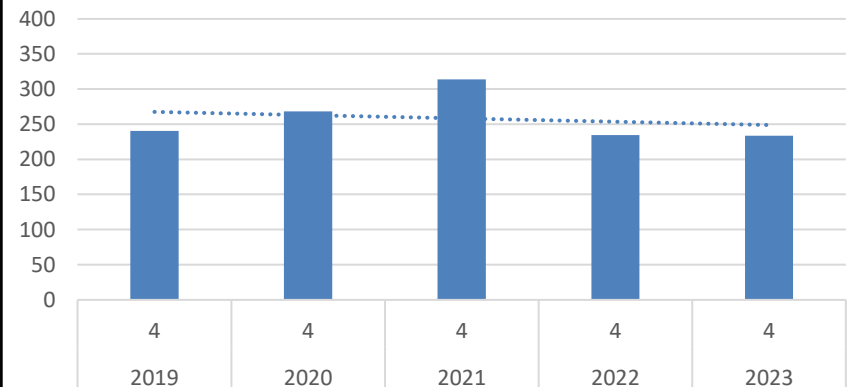
Five-year Trend All Engineering BIPD –
Region 2



Five-year Trend All Engineering BIPD –
Region 3



Five-year Trend All Engineering BIPD –
Region 4

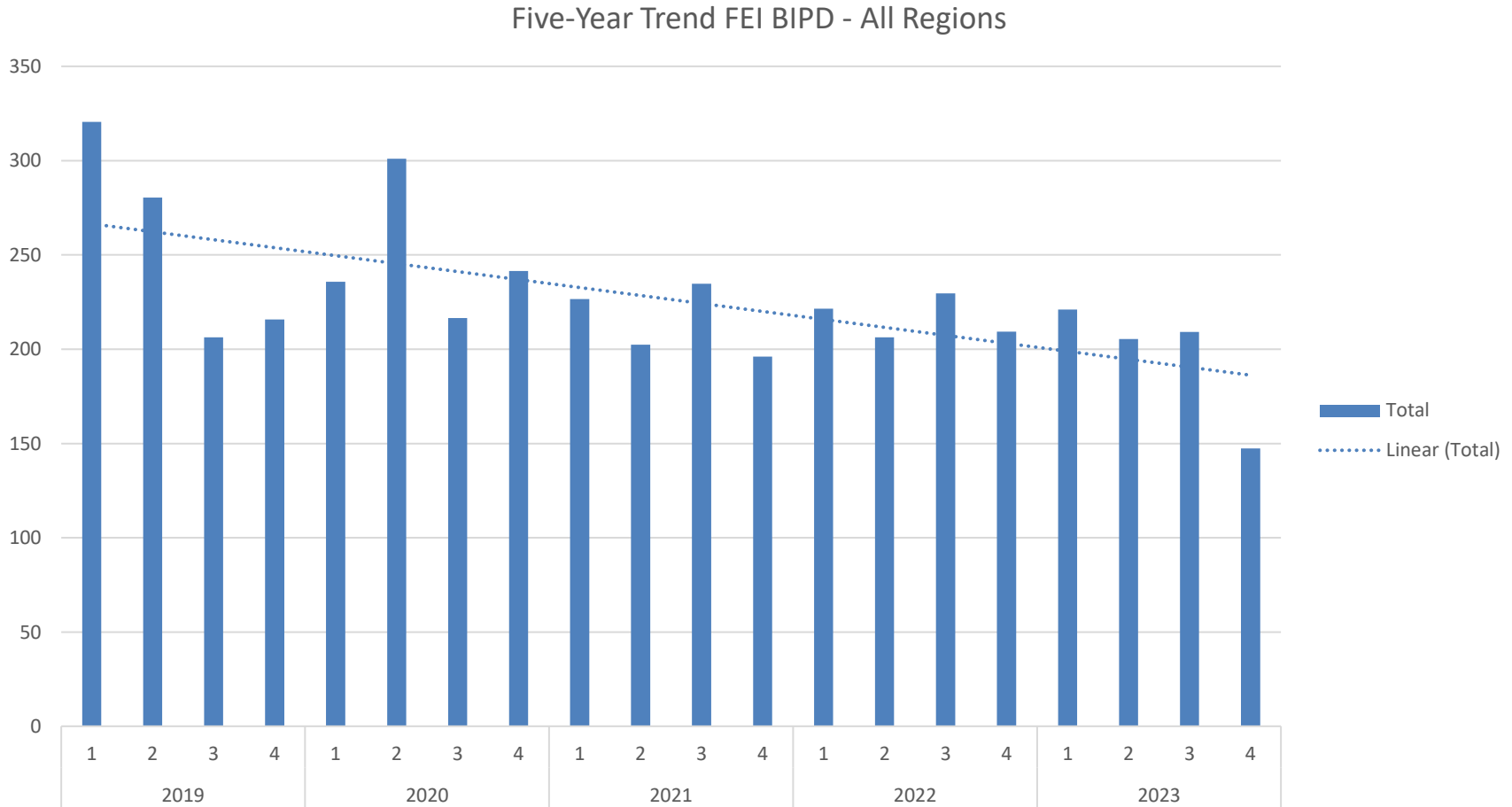


All Engineering Inspections

- Summary
 - Overall trend has been decreasing
 - Note
 - Design Basis Assurance Inspections (DBAI), Comprehensive Engineering Team Inspections (CETI) and Focused Engineering Inspections (FEI) were included as part of the trend review
 - Data was normalized by the number of inspections per year
 - Region 3 had a flat to very slight increase in BIPD hours

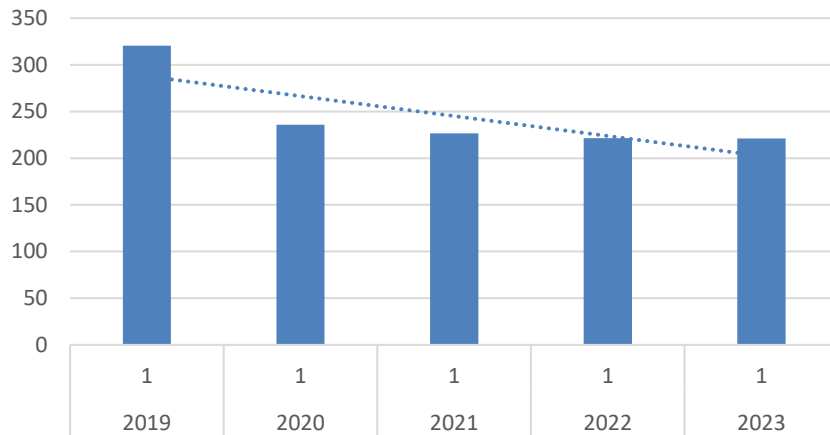
Focused Engineering Inspections (FEI) BIPD

5-yr trend

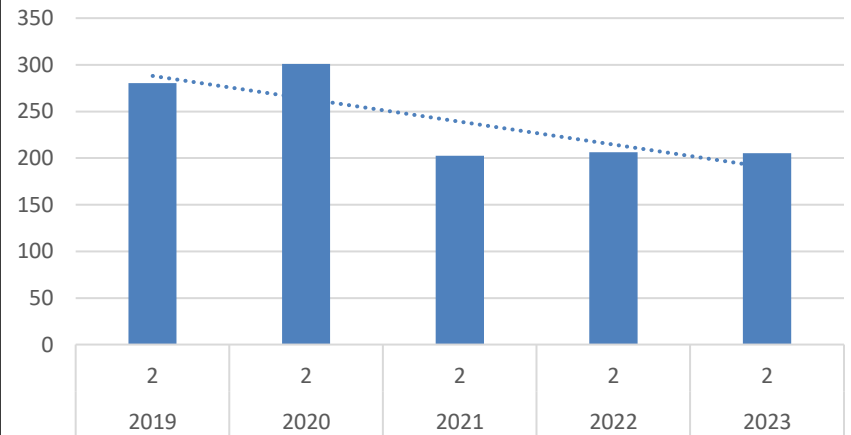


FEI BIPD by Region

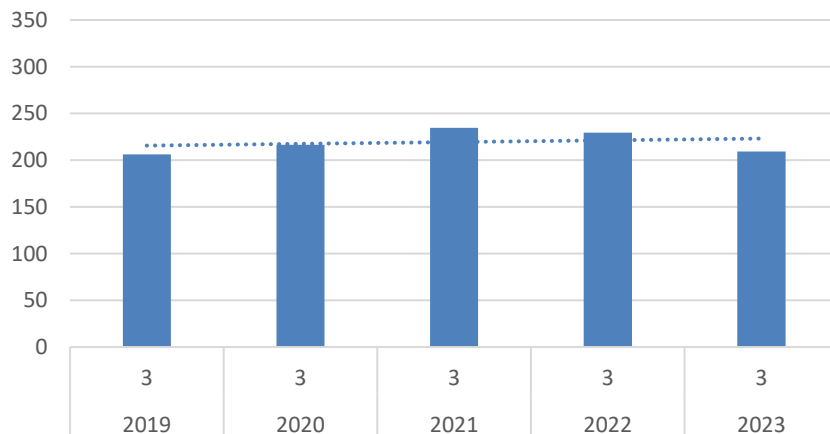
Five-Year Trend FEI BIPD – Region 1



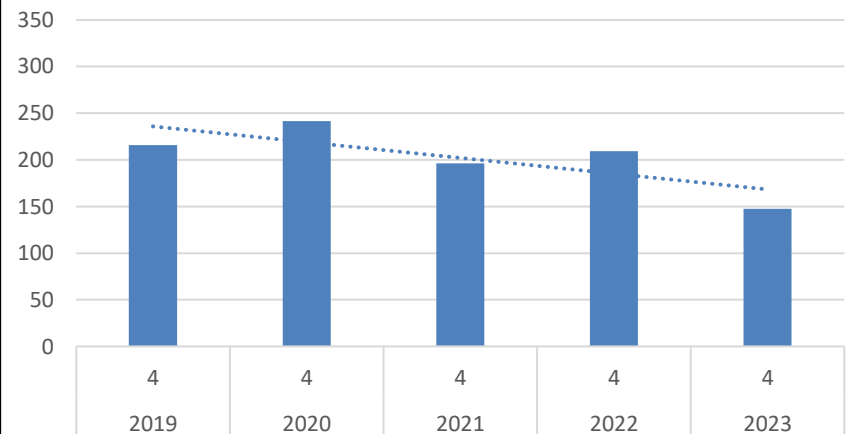
Five-Year Trend FEI BIPD – Region 2



Five-Year Trend FEI BIPD – Region 3



Five-Year Trend FEI BIPD – Region 4



Focused Engineering Team Inspections (FEI)

- Summary
 - Overall downward trend over the last five years
 - Region 3 had a slight increase in BIPD
 - Examples: Equipment Qualification (EQ), Power Operated Valve (POV), Commercial Grade Dedication (CGD), Age-Related Degradation (ARD), Fire Inspections
 - Data was normalized by the number of inspections per year

Overall conclusions

- Overall trend for BIPD was decreasing
 - However, in certain instances, depending on the specific inspection or region, the trend was increasing or relatively flat
- Downward trend for BIPD for most of the Team inspections
- IMCs/IPs do not provide criteria for charging BIPD
 - CAC Definition
 - Inspection plan development, information requests, entrance/exit meetings, etc



Areas for follow-up

CAC review for consistency of definitions

Self-assessment review of the use of BIPD

Review Guidance



QUESTIONS?

