

# Baseline Inspection Preparation and Documentation (BIPD) Trends

Steve Campbell

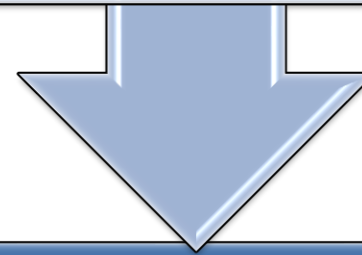
Amar Patel

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:**

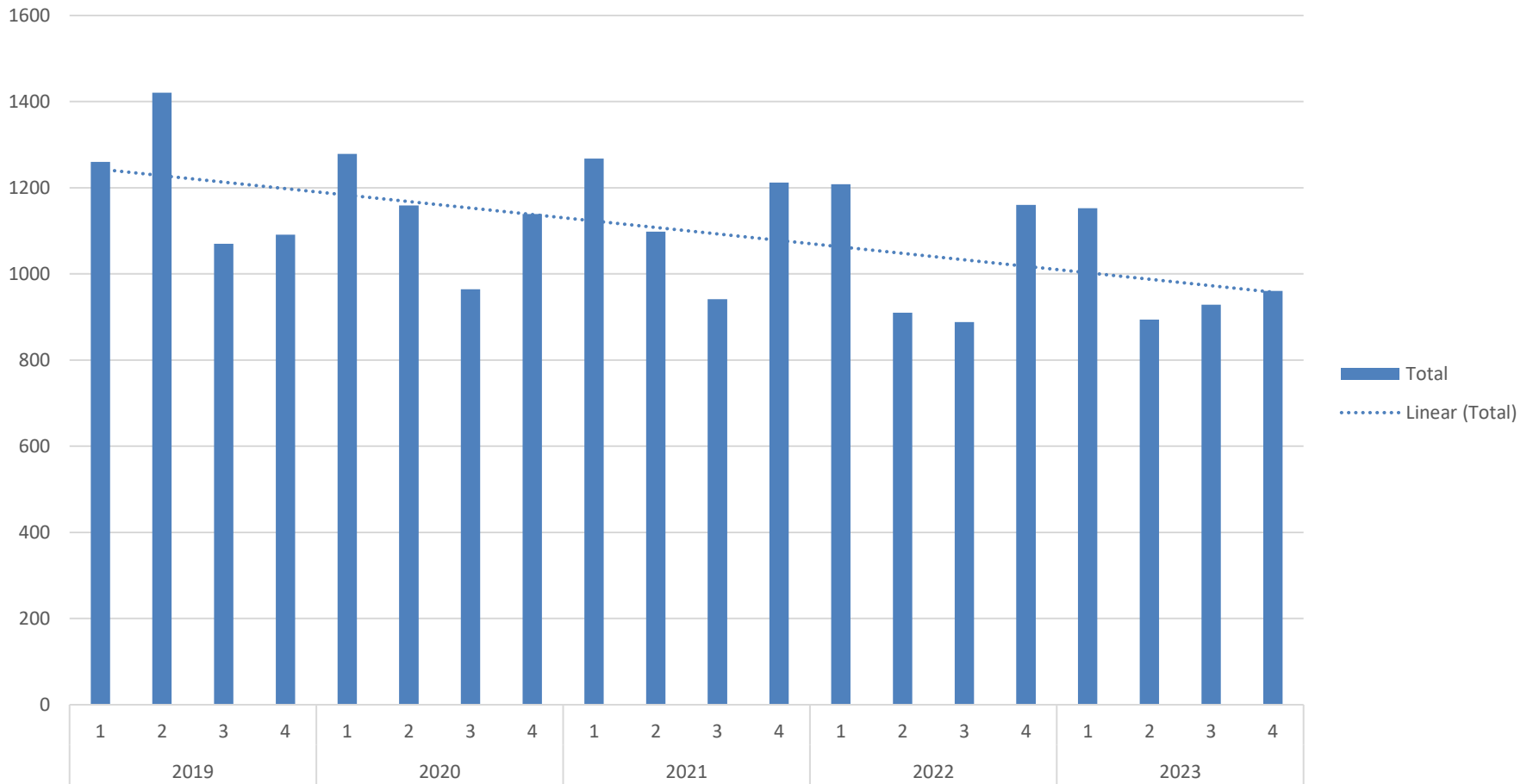
- Writing inspection reports
- Review of report inputs
- Reviewing reports for final signature
- Certifying reports and troubleshooting
- Reviewing RPS data to ensure accuracy of information for associated inspection report

# 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)

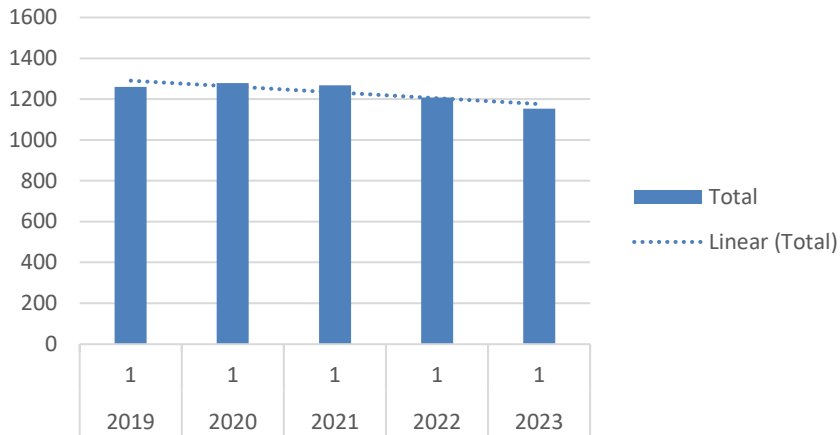
# All BIPD per site

Five-year Trend All BIPD for All Regions per site

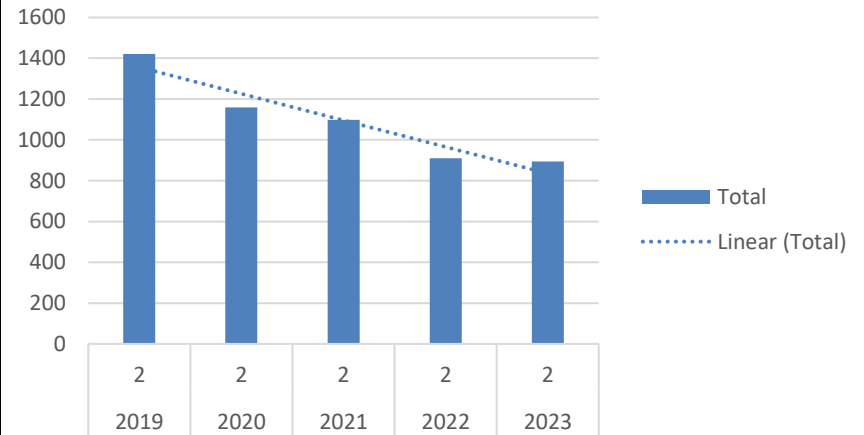


# All BIPD by Region per site

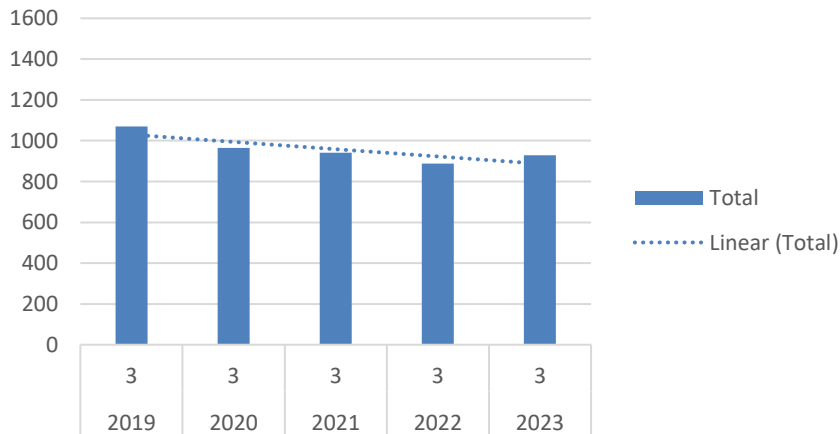
### Five-year Trend All BIPD for Region 1 per site



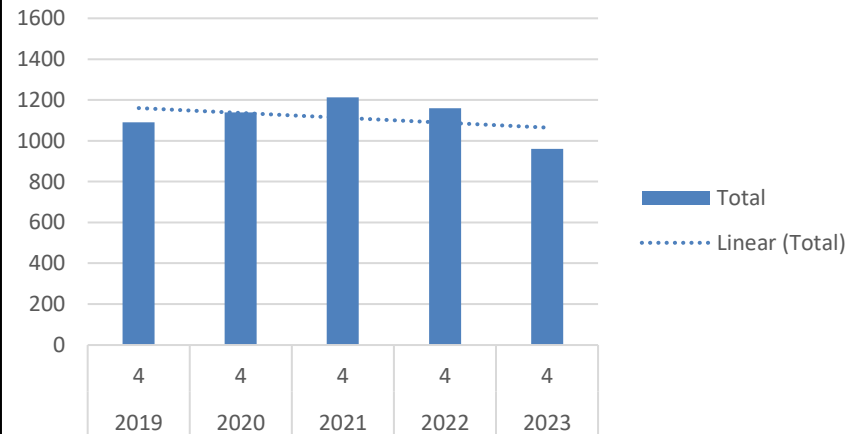
### Five-year Trend All BIPD for Region 2 per site



### Five-year Trend All BIPD for Region 3 per site



### Five-year Trend All BIPD for Region 4 per site

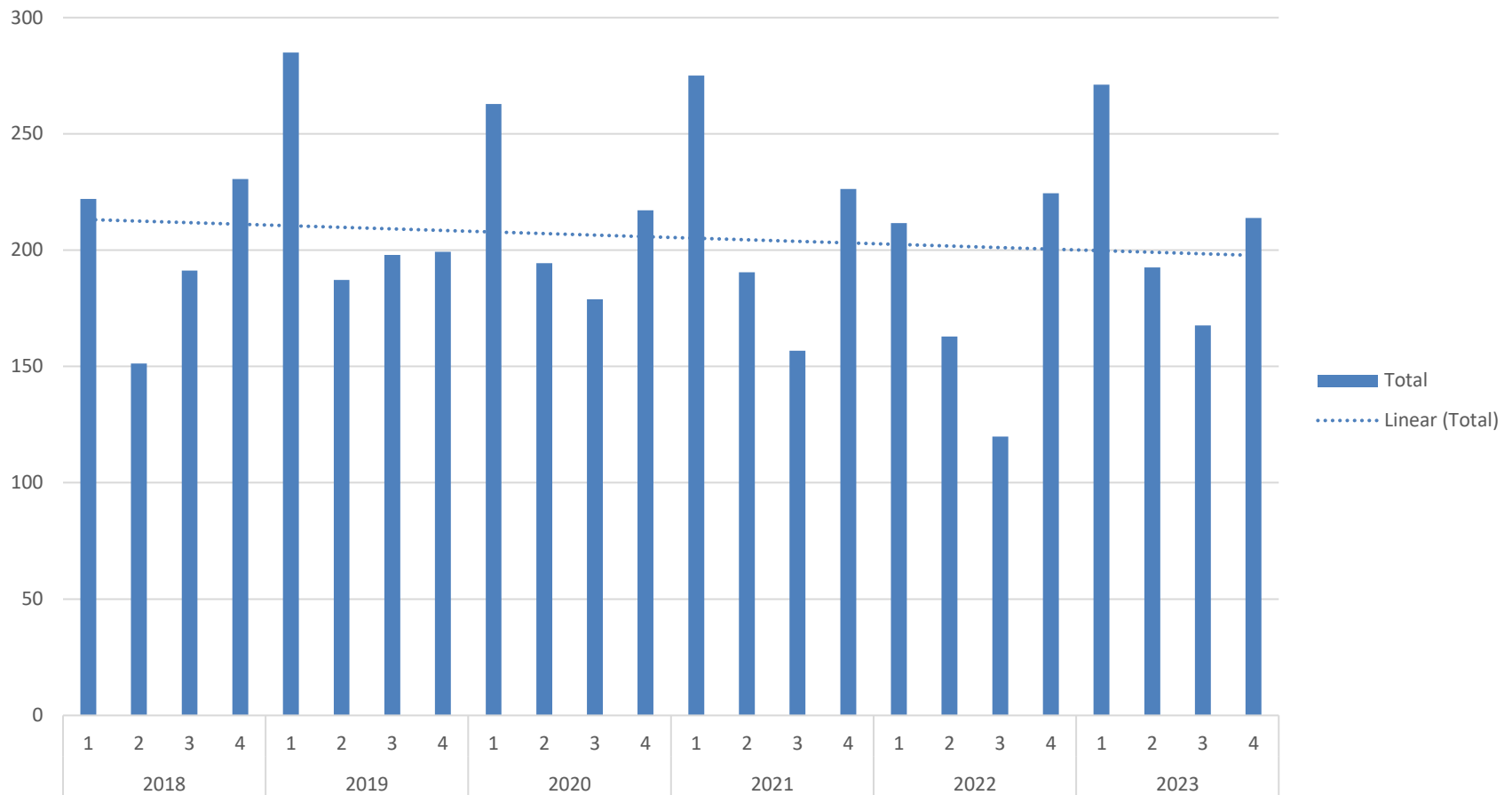


# All inspections

- 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

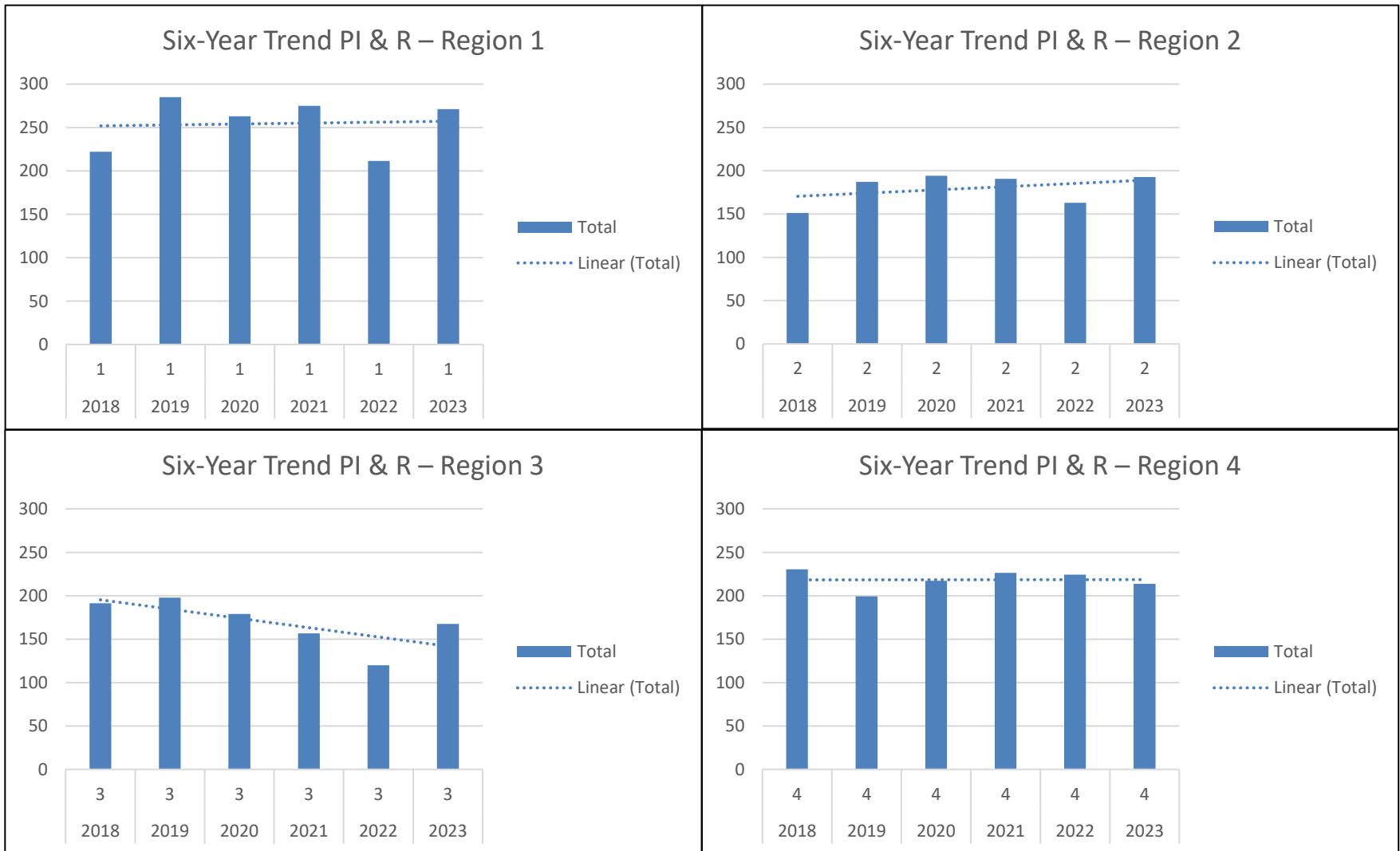
# Biennial Problem Identification and Resolution (PI&R) – 6-yr trend

Six-Year Trend PI & R - All Regions (BIPD hours per inspection)





# Biennial PI&R by Region (Hours per inspection)



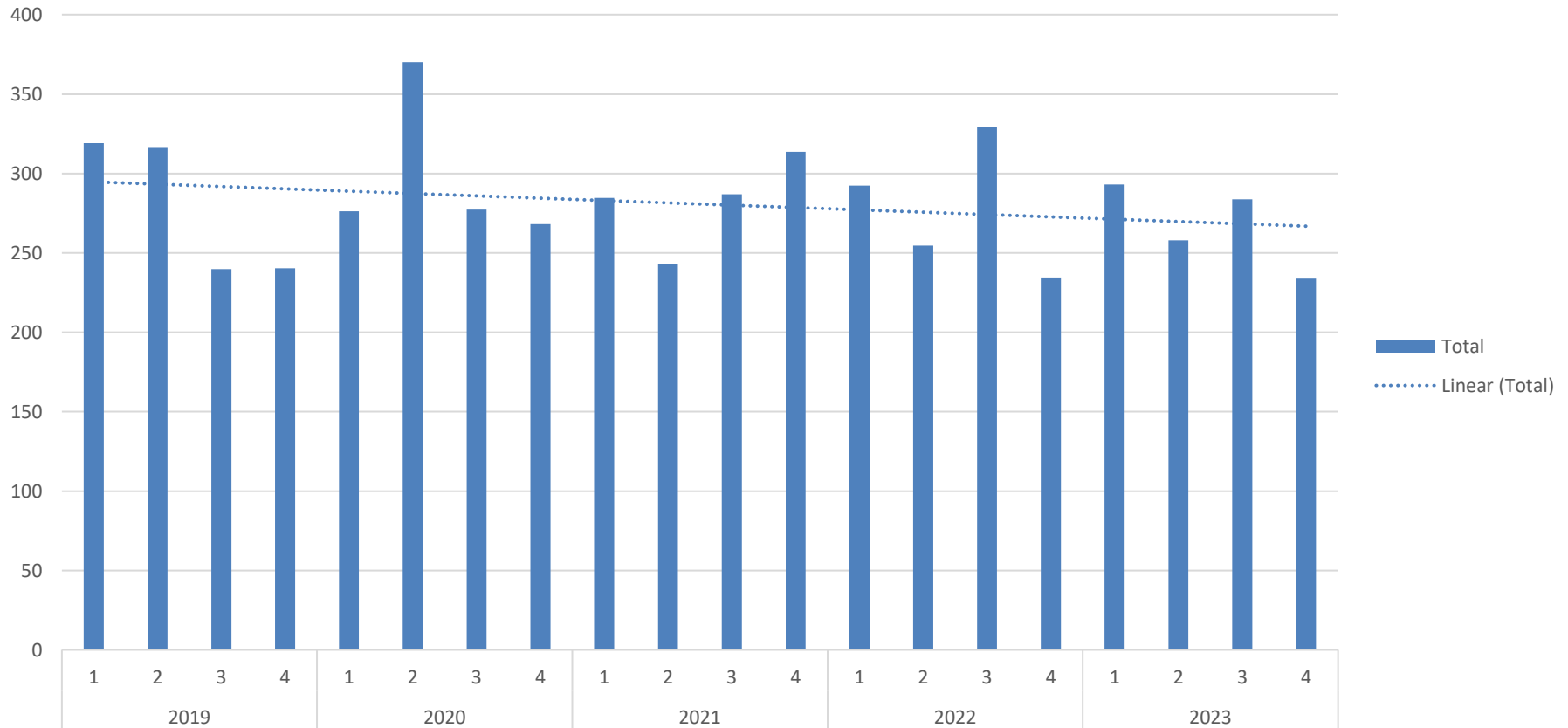
# Biennial PI&R

- 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

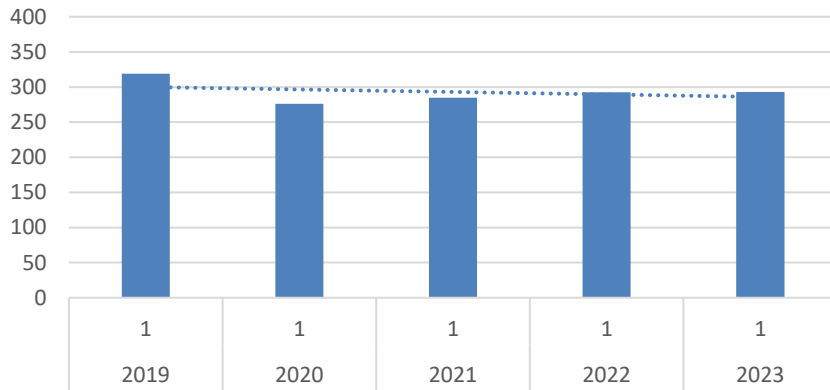
# All Engineering Inspections BIPD 5-yr review

Five-year Trend All Engineering Inspections BIPD - All Regions

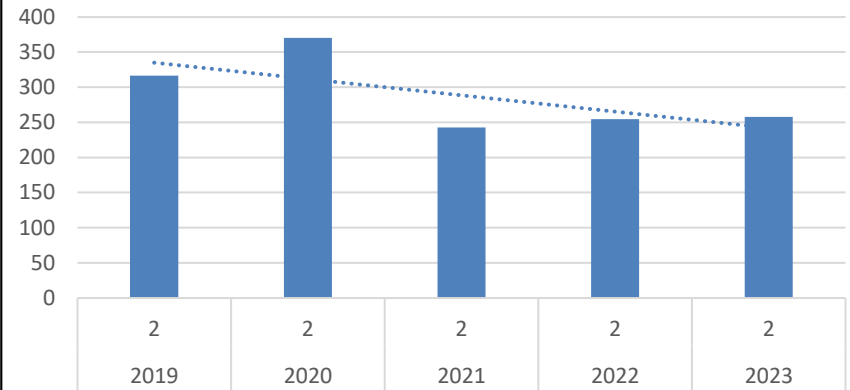


# All Engineering BIPD by Region

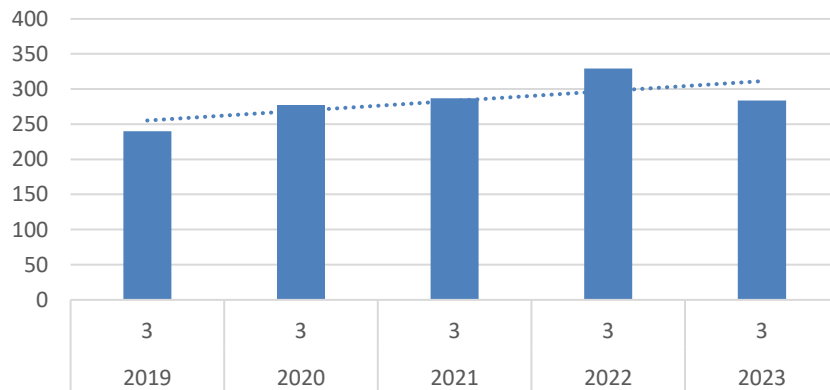
Five-year Trend All Engineering BIPD –  
Region 1



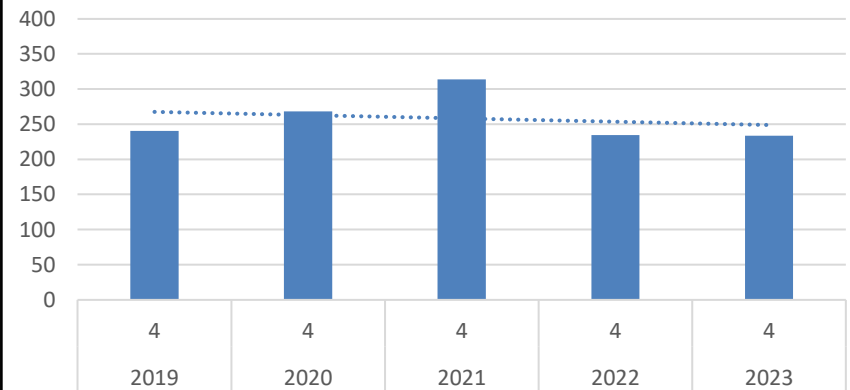
Five-year Trend All Engineering BIPD –  
Region 2



Five-year Trend All Engineering BIPD –  
Region 3



Five-year Trend All Engineering BIPD –  
Region 4



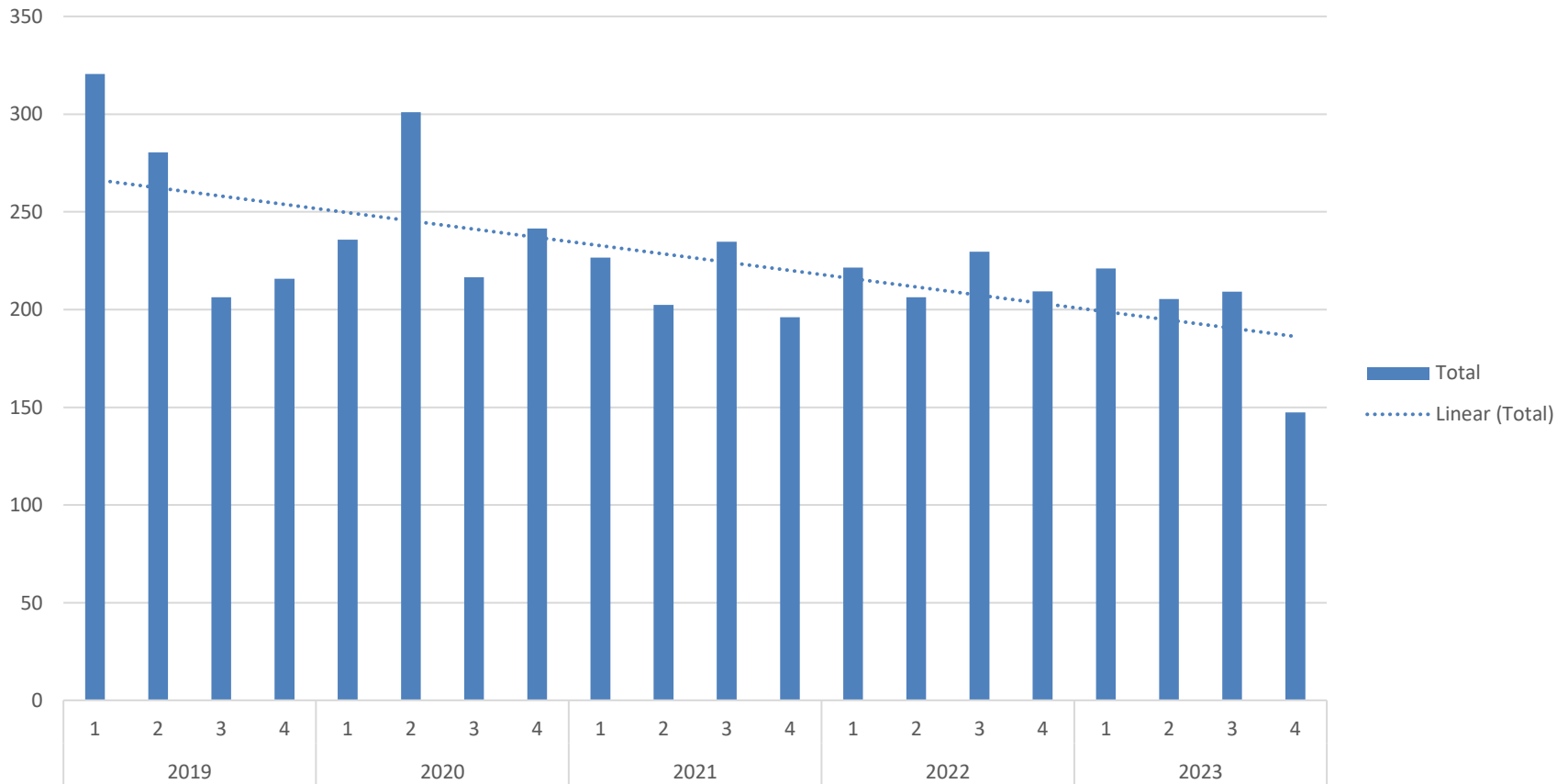
# All Engineering Inspections

- 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

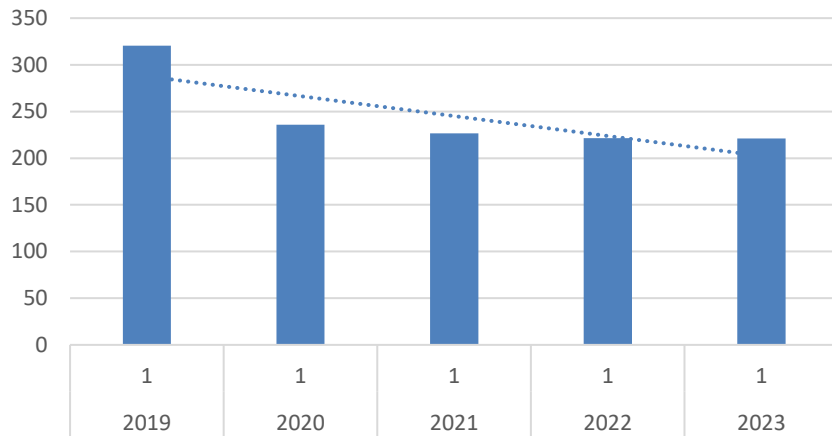
## 5-yr trend

Five-Year Trend FEI BIPD - All Regions

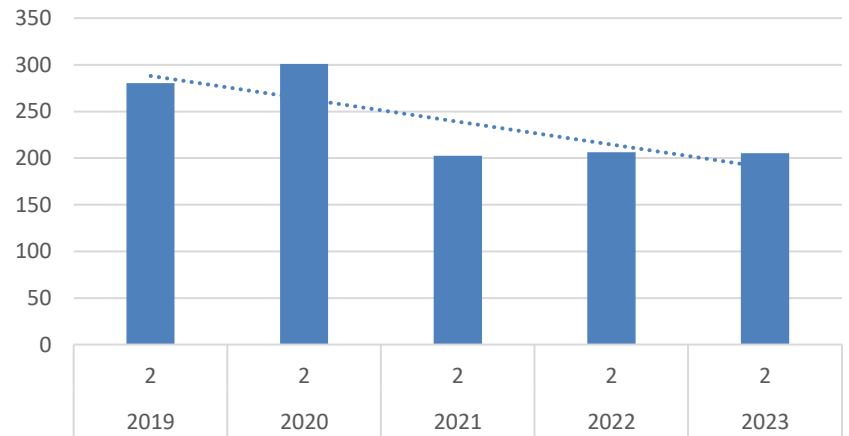


# FEI BIPD by Region

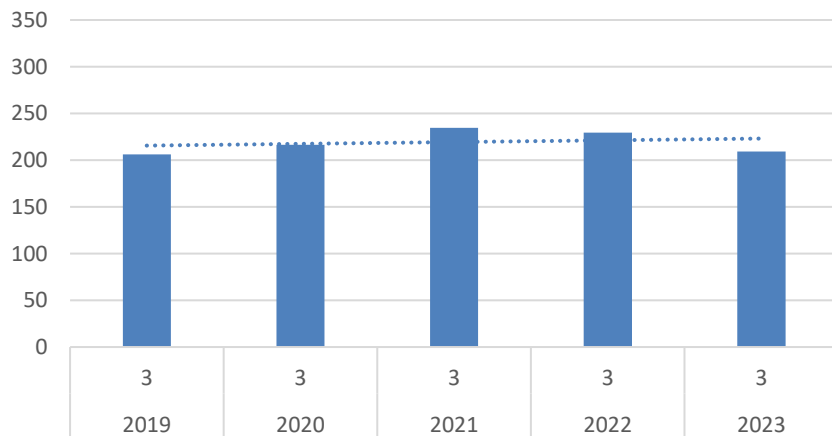
### Five-Year Trend FEI BIPD – Region 1



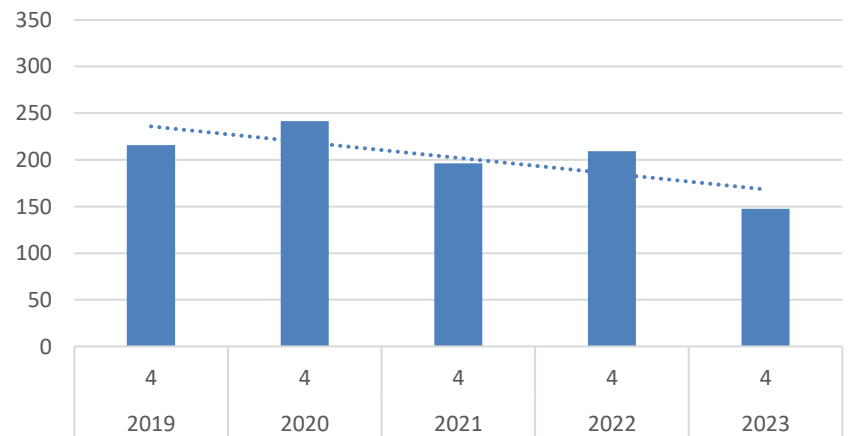
### Five-Year Trend FEI BIPD – Region 2



### 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?**

