

# INL SEC Proposed Class - Update

## SEC00219

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Division of Compensation Analysis and Support

# Overview

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- Background
- NIOSH Update
  - Review of NOCTS Claims
  - Data Gaps
  - Dosimetry Report and Monthly Report Comparison
- Update on INL and ANL-W Activity Timeline



# Refresher on Dosimetry at INL

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- One badge one area methodology
  - If a worker who routinely worked at MTR went to CPP they left their MTR badge at MTR security checkpoint and picked up a Temporary Badge at CPP.
  - Visitors picked up temporary badges upon entrance to CPP
- Dosimetry Records
  - CPP Main Badge Reports (Main codes 5, 53, 55)
  - CPP Temporary Badge Reports
  - CPP Construction (CX) Reports (codes 11, 113, 115)



# Example of CPP Dosimeter Badge Report

- Phillips Petroleum
- AEC
- NRF
- Subcontractors
  - FC Torkelson

U. S. ATOMIC ENERGY COMMISSION  
IDAHO OPERATIONS OFFICE  
PERSONNEL METERING BRANCH

CONTRACTOR: PHILLIPS PETROLEUM CO. AREA: 020 CPP

PERSONNEL EXPOSURE REPORT

NAME	FILM BADGE NO.	CONT CODE	PERIOD ENDING			AREA CODE	PERSON CODE	BETA EXPOSURE	GAMMA EXPOSURE	NEUTRON EXPOSURE	TOTAL EXPOSURE	IRREG CODE
			NO.	DAY	YR.							
[REDACTED]	661065	089	07	29	65	05	01	0000	*0000			
[REDACTED]	661113	001	07	29	65	05	01					
[REDACTED]	661125	001	07	29	65	05	01	0000	*0000			
[REDACTED]	661233	002	07	29	65	05	01	0000	*0000			
[REDACTED]	661277	02	07	29	65	05	01	0000	*0000			
[REDACTED]	662001	089	07	29	65	05	01	0000	*0000			
[REDACTED]	662002	089	07	29	65	05	01	0000	*0000			
[REDACTED]	662011	001	07	29	65	05	01	0000	*0000			
[REDACTED]	662034	001	07	29	65	05	01	0000	*0000			
[REDACTED]	662136	001	07	29	65	05	01					14
[REDACTED]	900310	002	07	29	65	05	01	0000	*0000			
[REDACTED]	900407	002	07	29	65	05	01	0000	*0000			
[REDACTED]	900683	002	07	29	65	05	01	0000	*0000			
[REDACTED]	900850	002	07	29	65	05	01	0000	*0000			
[REDACTED]	901137	002	07	29	65	05	01	0000	*0000			
[REDACTED]	061101	005	07	29	65	05	10	0000	*0000			
[REDACTED]	061552	005	07	29	65	05	10	0000	*0000			
[REDACTED]	061574	005	07	29	65	05	10	0000	*0000			

Annotations in red boxes:

- 089 = FC Torkelson
- 001 = AEC
- 002 = Phillips
- 089 = FC Torkelson
- 089 = FC Torkelson
- 005 = Westinghouse (NRF)

SRDB 143068



# Example of CPP Temporary Dosimeter Badge Report

- News Reporter
- Phillips employees
  - other areas
- AEC Personnel
- Construction Trades
  - H.S. Wright
  - FC Torkelson
- Vendors
  - CocaCola

ID - 100  
(R - 4 - 00)  
*Chick*

**TEMPORARY BADGE REPORT**  
44-13-0

076

AREA **CPP** PAGE # 1 REPORT DATE 11-5-65

TEMP BADGE NO.	NAME	EMPLOYER (SPELL OUT)	DATES USED	PERMANENT BADGE NO.	BETA	GAMMA	NEUTRON
356831	[REDACTED]	<b>Blackfoot News</b>	11-5-65		0		
356870	[REDACTED]	Inland Trogan	11-5-65		0		
356849	[REDACTED]	<b>Phillips</b>	11-5-65		0		
355530	[REDACTED]	Phillips	11-1-5-65		0		
356852	[REDACTED]	Phillips	11-3-65				
356865	[REDACTED]	<b>H.S.Wright</b>	11-1-5-65		0		
356865	[REDACTED]	<b>AEC</b>	11-5-65		0		
356844	[REDACTED]	Phillips	11-3-5-65	01-084	0	0	0
356875	[REDACTED]	Wiscomb Co.	11-4-65		0		
355527	[REDACTED]	Phillips	11-1-5-65		0		
356857	[REDACTED]	<b>Torkelson</b>	11-4-5-65		0		
356860	[REDACTED]	Torkelson	11-4-5-65		0		
355545	[REDACTED]	Phillips	11-1-5-65		0		
355538	[REDACTED]	Phillips	11-1-5-65		0		
355507	[REDACTED]	Phillips	10-28/11-5-65		0		
355515	[REDACTED]	<b>CocaCola</b>	11-1-5-65		0		
356887	[REDACTED]	H.S.Wright	11-4-65		0		
355519	[REDACTED]	H.S.Wright	11-3-5-65		0		
356877	[REDACTED]	AEC	11-5-65		0		
356863	[REDACTED]	Phillips	11-5-65		0		

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# • Example of CPP Construction (CX) Dosimeter Badge Report

Area Code 11 = CPP Construction (CX)

U. S. ATOMIC ENERGY COMMISSION  
IDAHO OPERATIONS OFFICE  
PERSONNEL METERING BRANCH

CONTRACTOR **CPP CONSTRUCTION** **2** AREA **CX**

**PERSONNEL EXPOSURE REPORT**

NAME	FILM BADGE NO.	CONT CODE	PERIOD ENDING			AREA CODE	REASON CODE	BETA EXPOSURE	GAMMA EXPOSURE	NEUTRON EXPOSURE	TOTAL EXPOSURE	IRREG CODE
			MO.	DAY	YR.							
[REDACTED]	[REDACTED]	007	04	09	64	11	01	0000	*0000			
[REDACTED]	[REDACTED]	007	04	09	64	11	01	0000	*0120		120	
[REDACTED]	[REDACTED]	007	04	09	64	11	01	0000	*0000			
[REDACTED]	[REDACTED]	007	04	09	64	11	01	0000	*0050			
[REDACTED]	[REDACTED]	073	04	09	64	11	01	0000	*0000			
[REDACTED]	[REDACTED]	112	04	09	64	11	01	0000	*0000			
[REDACTED]	[REDACTED]	007	04	09	64	11	01	0000	*0000			
[REDACTED]	[REDACTED]	007	04	09	64	11	01	0000	*0000			14
[REDACTED]	[REDACTED]	007	04	09	64	11	01	0000	*0000			
[REDACTED]	[REDACTED]	007	03	16	64	05	13	0000	*0000			14
[REDACTED]	[REDACTED]	007	04	09	64	11	01	0000	*0000			
[REDACTED]	[REDACTED]	007	04	09	64	11	01	0000	*0000			
[REDACTED]	[REDACTED]	007	04	09	64	11	01	0000	*0000			
[REDACTED]	[REDACTED]	007	04	09	64	11	01	0000	*0000			

30-171088

007 = H.K. Ferguson  
073 = Misc. Construction  
112 = H.S. Wright

NOCTS 9852



# Background Summary

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- Multiple types of workers were badged upon entry to CPP
- A CPP worker's dosimetry could appear on any one of several reports.
  - CPP Main Dosimetry Report (05, 053, 055)
  - CPP Temporary Dosimetry Report
  - CPP Construction (CX) Dosimetry Report (11, 113, 115)



# Review of 1753 INL Claims in NOCTS

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- 1<sup>st</sup> Review to determine whether employment period was within the proposed SEC
  - 872 claims (49.7%) did not work during the SEC period
  - 881 INL Claims with employment during SEC Period
- 2<sup>nd</sup> Review 881 INL Claims to determine if there is indication of work at CPP.
  - Computer Assisted Telephone Interview CATI
  - Dose Reconstruction Report
  - DOE file



# Follow-up Claims

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- July - 32 claims needing follow-up
- August - After receipt and review of CX dosimetry file
  - *Identified 10 claims needing follow-up*
- October - 7 (0.9%) claims need follow-up to determine status
  - *Down 3 from 10 earlier due to claim being part of the class from identified dosimetry in the 1970-1975 time period (i.e could have used other area badge for CPP work)*
- Request for supplemental information on 7 claims sent to the site on October 5, 2015
- Request for supplemental information for the 11 additional claims SC&A identified was sent on October 13, 2015
- Total 18 of 881 claims (or 2%) are being followed



# Does NIOSH have all of the Dosimetry Data?

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- Look for Data Gaps in dosimetry
- Compare number of dosimeters reported in monthly Health Physics reports vs. the number of people listed on the badge reports obtained from the site.

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# Review of CPP Dosimetry for Gaps

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- CPP Dosimetry Reports (1963-1974)
  - After follow-up only December 1970 is missing
    - *Note cycle end date was December 25, 1970*
  - Not significant since annual reports are available for 1970
    - Single badge from any location from March through December 1970 is part of class. If annual summary is all that indicates dose, then should assume CPP exposure.
  - Checked dose totals for select workers and annual summary has the December dose.
    - Annual dose greater than sum of Jan-Nov totals



# Review of CPP Dosimetry for Gaps

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- Temporary Badge Reports (1959-1976)
  - None appear to be missing. NIOSH has temporary badge reports for every month between 1959 and 1976.
- CX Dosimetry Reports
  - After follow-up in August, there are no gaps or missing data from the CX dosimetry reports.



# Comparisons of Monthly Health Physics Reports vs CPP Dosimetry

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- Goal is that if the site indicated that they processed 500 dosimeter badges in a month and we have 500 dosimeter results then we can be fairly sure we have all of the results.
- Reviewed 1963 through 1970 found very good agreement between monthly reports and dosimetry printouts.

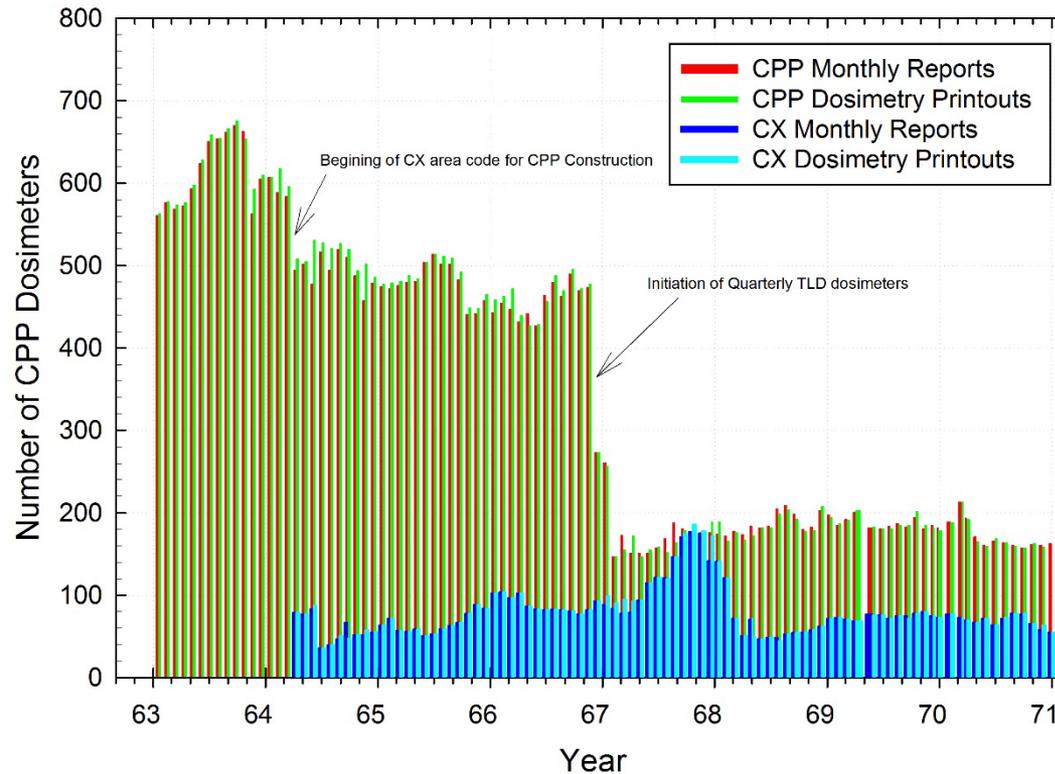
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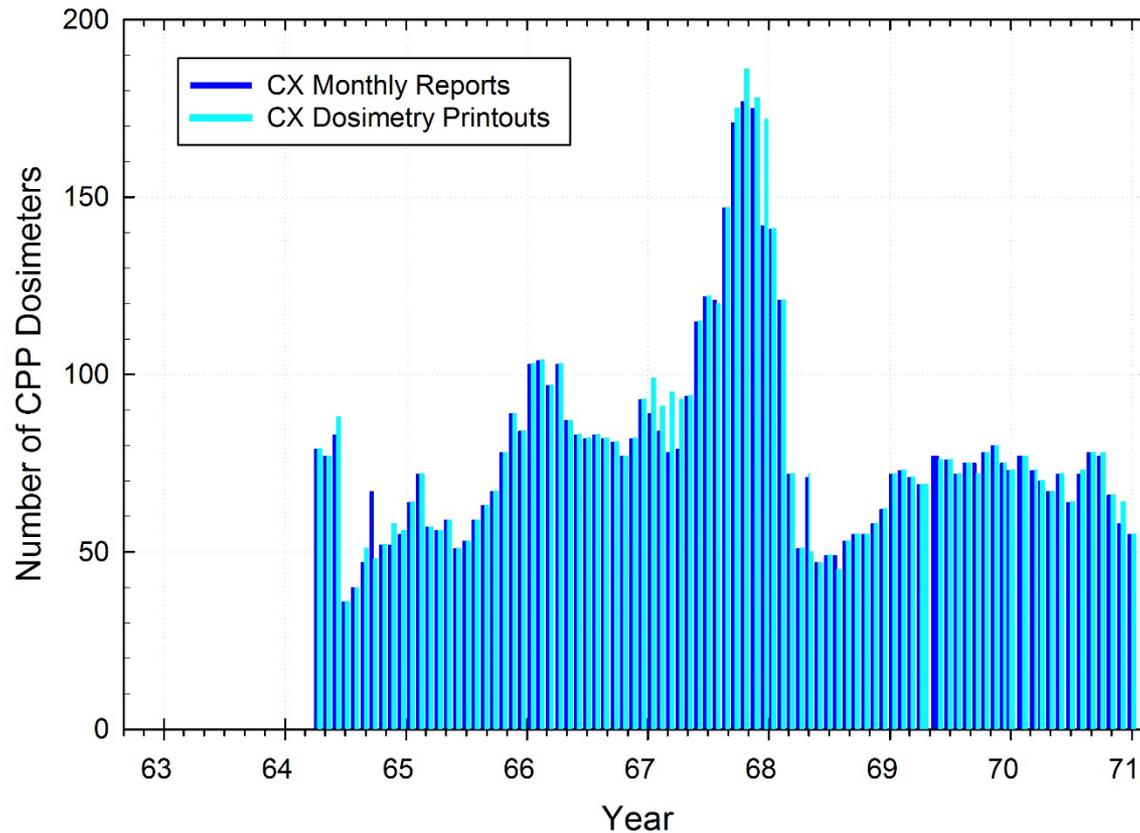
# CPP Dosimetry Comparison

## INL CPP Dosimetry Comparison

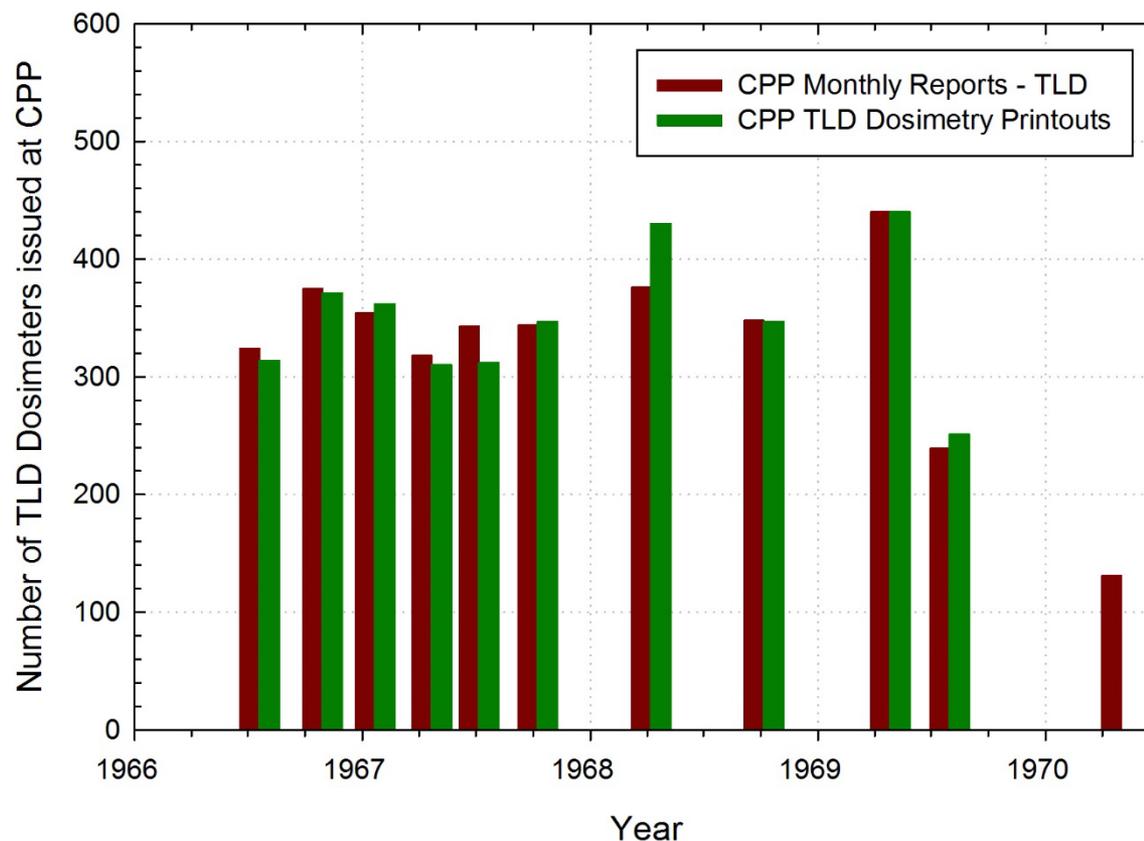


# CPP Dosimetry Comparison

INL CX Dosimetry Comparison



# CPP TLD Dosimetry Comparison



# Comparison Statistics

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January 1963 – November 1970	HP Monthly Reports	Dosimeter Printouts	Difference
CPP Prime Contractors	35870	36228	358
Construction Contractors (CX)	6956	7011	55
CPP TLD's	3461	3484	23
Total	46287	46723	436

Average monthly difference for Prime Contractors is 3.5 dosimeters

Average monthly difference for Construction Contractors is 0.5 dosimeters



# Summary

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- Follow up between NIOSH and SC&A has been reduced to 18 of 881 claims or 2%, thus the current definition works for at least 98% of the claims.
- No significant data gaps identified
- Good comparison between periodic reports and dosimetry data



# Proposed SEC Class Definition

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All employees of the Department of Energy, its predecessor agencies, and their contractors and subcontractors who worked at the Idaho National Laboratory (INL) in Scoville, Idaho, and (a) who were monitored for external radiation at the Idaho Chemical Processing Plant (CPP) (e.g., at least one film badge or TLD dosimeter from CPP) between January 1, 1963 and February 28, 1970; or (b) who were monitored for external radiation at INL (e.g., at least one film badge or TLD dosimeter) between March 1, 1970 and December 31, 1974 for a number of work days aggregating at least 250 work days, occurring either solely under this employment, or in combination with work days within the parameters established for one or more other classes of employees in the Special Exposure Cohort.



# Update on Idaho SEC Activities

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- ANL-W SEC Petition (SEC00224) evaluation report is delayed until January / February 2016
  - Discovery of early (1952) bioassay data (urine and fecal results) for ANL-W workers in the ANL-E dosimetry records.
  - Follow-up requests for dosimetry and bioassay from both ANL-E and INL to sort out location and timeline of the records.
  - Received all of the requested follow-up records from the site on October 28, 2015 – currently evaluating

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# Update on Idaho SEC Activities

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- While waiting on follow-up records for ANL-W, we began work on reserved sections of INL SEC (SEC00219) (Evaluation Report Addendum)
  - First Data Capture was week of October 19<sup>th</sup>
  - Second Data capture was week of November 2<sup>nd</sup>
- Need to conduct a couple of interviews and are hoping to add a couple of people to SC&A's list
- February 2016 – Goal to have SEC Evaluation Report Addendum to petitioners and ABRWH
- March 2016 - Present SEC Evaluation Report Addendum to ABRWH.

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# Idaho SEC Activities – Proposed Timeline

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- March 2016 work with the ABRWH's INL Workgroup and SC&A to resolve findings, issues, and concerns with:
  - INL SEC00219 Evaluation Report
  - ANL-W SEC00224 Evaluation Report
  - INL SEC00219 Evaluation Report Addendum

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# Questions?

