Idaho National Laboratory

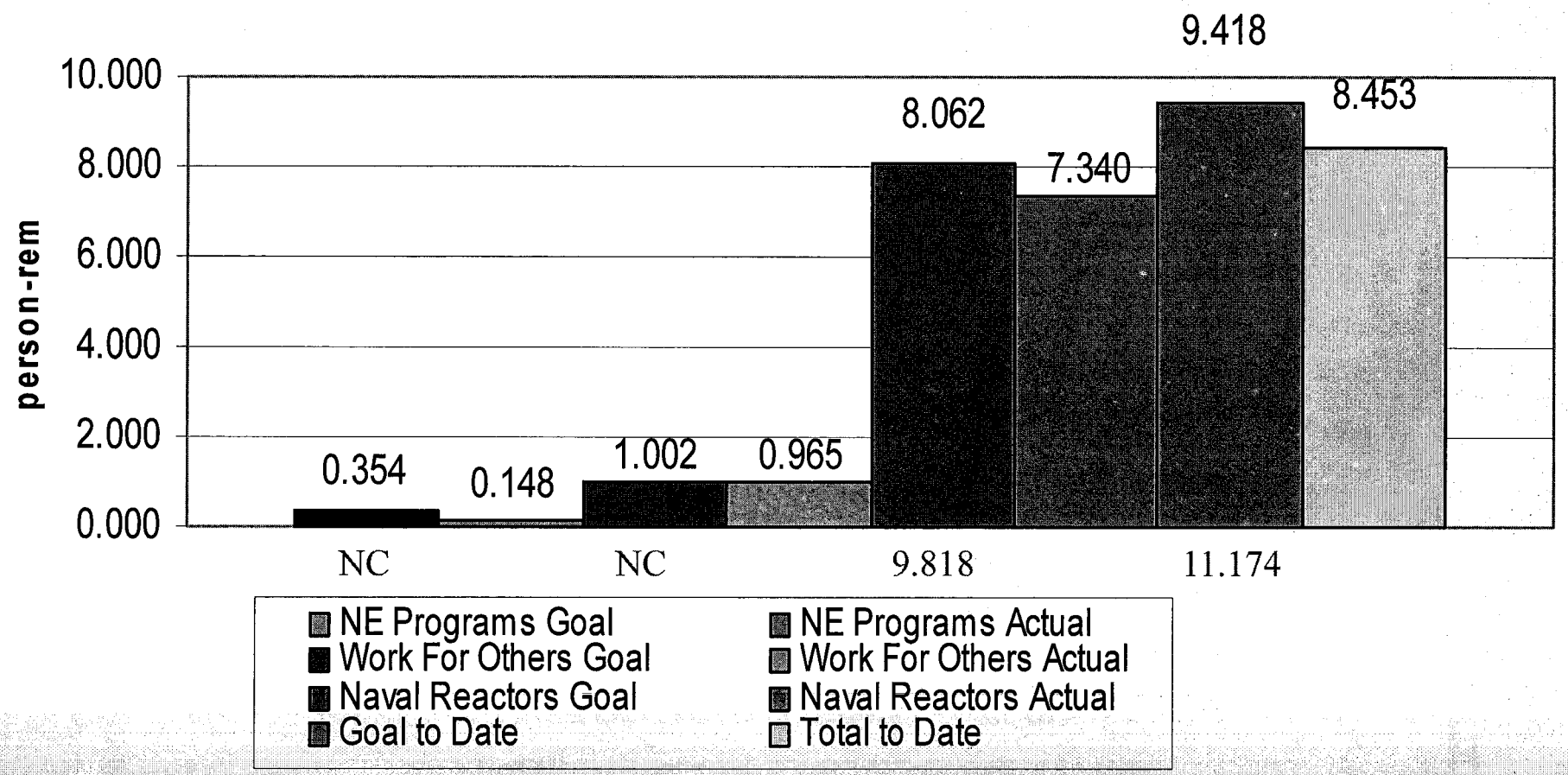
RTC/STC/CFA

CY-2007 ALARA Summary

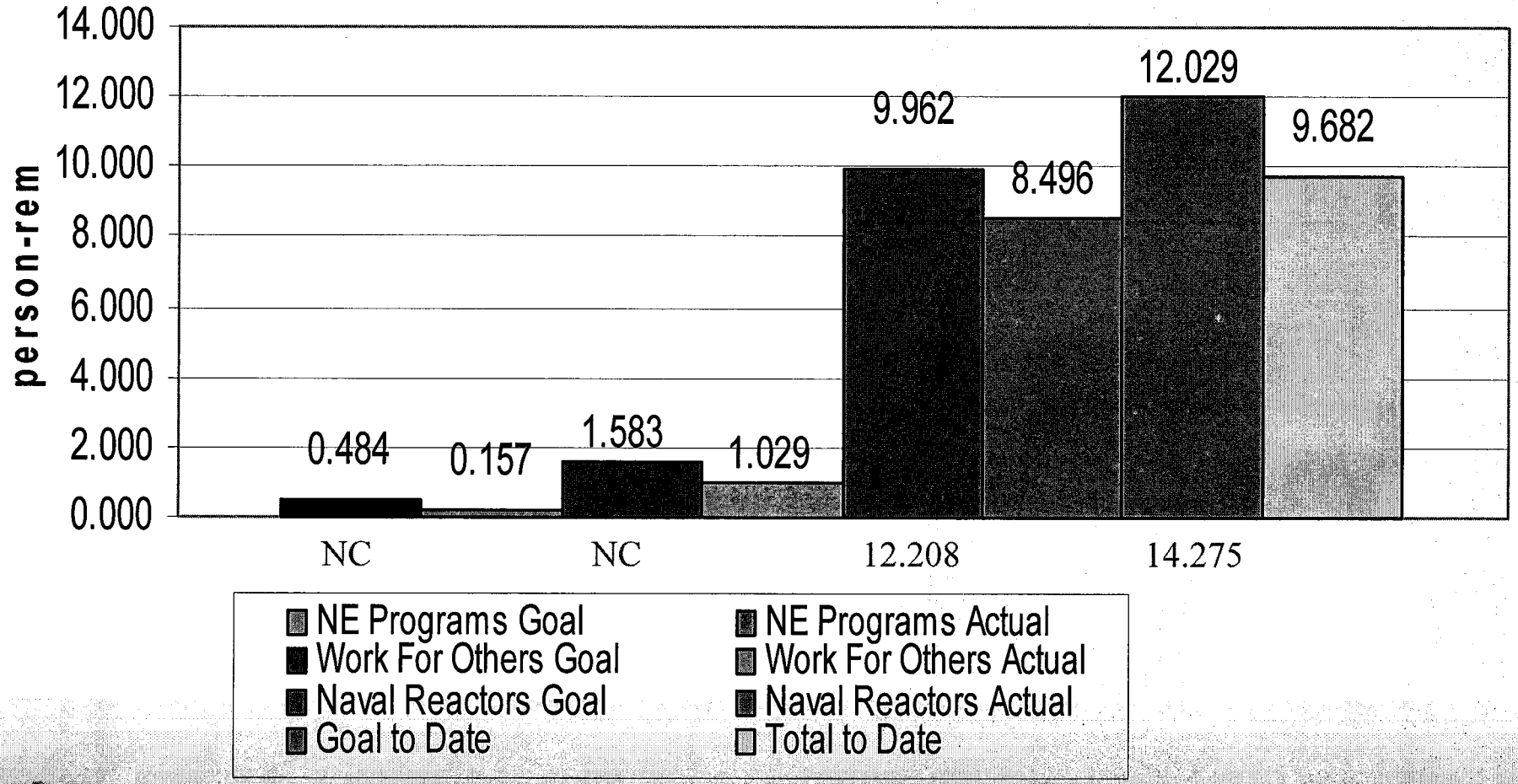
Brian Grant/ RTC ALARA Coordinator

September 18, 2007

RTC/STC/CFA/CITRC CY-2007 2nd Quarter Dose Distribution and Tracking (Rev. 1)



RTC/STC/CFA/CITRC CY-2007 3rd Quarter Dose Distribution and Tracking (Rev. 1)



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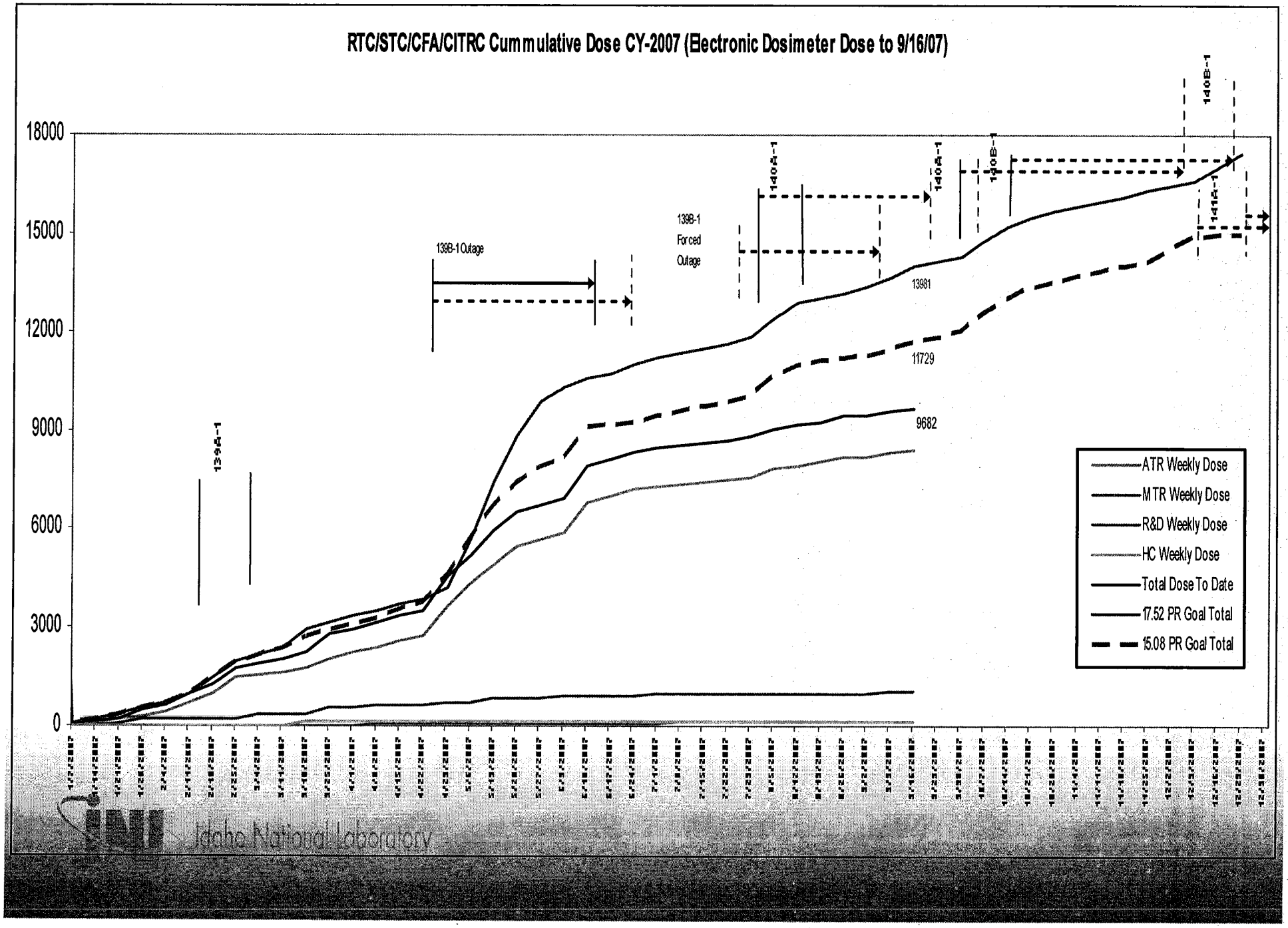
RTC/STC/CFA/CITRC Cummulative Dose CY-2007 (Electronic Dosimeter Dose to 9/16/07)
18000
15000
12000
9000
6000
3000
0
139A-1
139B-1 Outage
139B-1
Forced
Outage
140A-1
140A-1
140B-1
140B-1
141A-1
13981
11729
9682
ATR Weekly Dose
MTR Weekly Dose
R&D Weekly Dose
HC Weekly Dose
Total Dose To Date
17.52 PR Goal Total
15.08 PR Goal Total
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2007 Performance to Date

(Through August 2007)

Six non-reportable clothing contamination events

Two reportable clothing contamination events

Five non-reportable hot particle events

Two spills due to a leak from a pump following maintenance, one due to valve leak-by at a pump isolated for maintenance.

Highest exposed individuals (to 9/16/07)

- *233 ED/271 TLD mrem (BEA RCT supporting ATR)*
- *321 mrem neutron + 2 mrem ED = 323 mrem(PINS Project)*
- *466 mrem extremity (BEA Pipe Fitter supporting ATR)*

2007 Projections

Goal adjusted for the following projects:

Reason for adjustment	Net change in goal (mrem)
Heat Exchanger Inspections resulted in no need for plugging tubes	-1047
M-5 Drain Valve changed out during heat exchanger work	-500
Heat Exchanger Secondary Side Inspections more extensive than planned	519
40-Ton Crane Trolley Replacement postponed	-30
Dose savings during transfer of loop decontamination filters	-190
Reduced number of operating days due to extended outages	-728
Anticipated REVISS cask shipments did not materialize	-200
Rework on 2B-SE valves required additional dose	436
AGC-1 Experiment not installed	-100
Loop Heater work less extensive than planned	-600
Total Adjustment	-2440
Original Goal	17520
New Goal	15080

ALARA Success

PINS Relocation

Portable Isotopic Neutron Spectroscopy (PINS) and DT/DD Neutron Generators relocated to IF 675 east of Hitt Rd.

- *Shielding arrangement will result in less dose to the operators and trainees.*
- *Source transfer distances reduced to minimize exposure to the operators during set-up of equipment.*
- *Comprehensive dosimeter monitoring and radiological surveillance established.*