

Enterprise Imaging & Radiology Assessment & Planning



MCKENZIE STEPHENSON, INC.

Sites Visited

Institutions Selected For On-Site Review

1. Folsom State Prison (FSP)
2. California State Prison, Sacramento (SAC)
3. Valley State Prison For Women (VSPW)
4. Central California Women's Facility (CCWF)
5. San Quentin State Prison (SQ)
6. Correctional Training Facility (CTF)
7. Salinas Valley State Prison (SVSP)
8. Ironwood State Prison (ISP)
9. Chuckawalla Valley State Prison (CVSP)
10. California Medical Facility (CMF)
11. California State Prison, Solano (SOL)
12. California State Prison, Corcoran (COR)
13. California Substance Abuse Treatment Facility (CSATF)
14. Pelican Bay State Prison (PBSP)
15. High Desert State Prison (HDSP)
16. California Correctional Center (CCC)
17. California Institute For Women (CCI)
18. California Institute For Men (CIM)

Folsom State Prison (FSP)



Operations

- ◆ One (1) technologist available without backup for vacation or sick call
- ◆ No clerical support
- ◆ Limited hours of operation with no call
- ◆ CR technology deployed with no redundancy
- ◆ Locally developed P&P (not standardized)
- ◆ 1,526 total (radiology only) procedures completed during 2007

Technology

- ◆ Computed Radiology (CR) deployed but isolated with no archive backup
- ◆ No LAN available
- ◆ IMSATS available
- ◆ Mirrosoft™ Access used to track patient procedure volume
- ◆ Dental technology evolving to digital (stand alone configuration only)

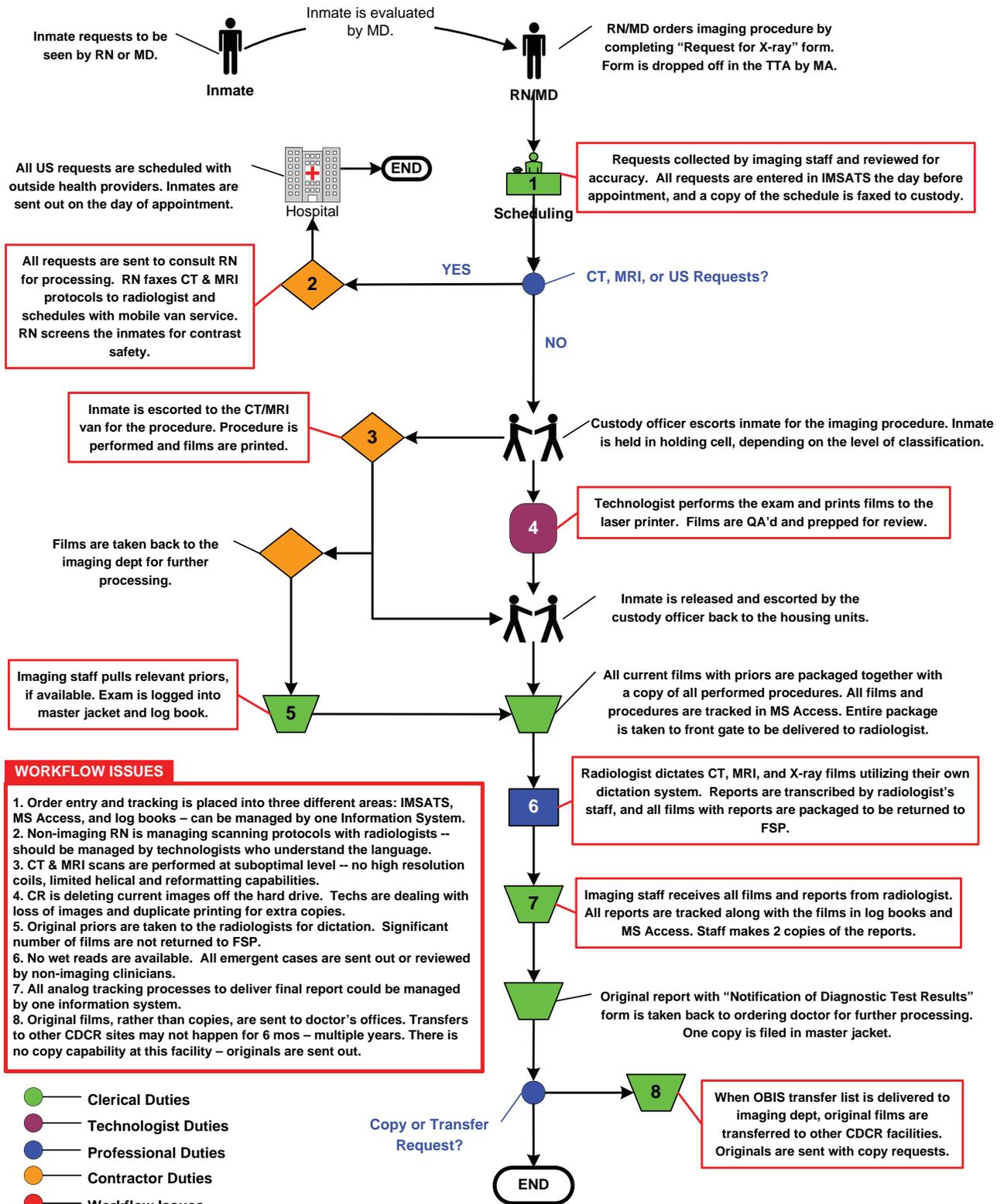
Professional

- ◆ Mobile MRI service every week
- ◆ Mobile CT service every week
- ◆ No mobile MRI or CT pad available (No power or network or telecom)
- ◆ Extreme slope where Mobile MRI parks
- ◆ Ultrasound 1 time per week
- ◆ Use Mercy Folsom, UCDCM and/or Doctors of Manteca Hospitals
- ◆ Utilize Mercy Radiology Group for interpretation

Device Matrix

FSP – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Del Medical IN Series	XR Unit	Main Dept	Analog	Functional	N/A	No Fluoro or Tomo, AEK ok, upright/table bucky ok, auto collimator ok
2	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS box available
3	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	No pan or zoom
4	Fuji DryPix5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Prints 3 sizes of films (8x10, 10x12, 14x17)
5	GE Echosped Plus 1.5T	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging, limited coils available for small extremities
6	GE ProSpeed	CT Unit	Mobile	Analog	Functional	N/A	Shared Imaging, limited helical and reformatting capabilities

Imaging Department Workflow Current State - FSP



Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.

California State Prison Sacramento (SAC)



Operations

- ◆ One (1) technologist available without backup for vacation or sick call
- ◆ No clerical support
- ◆ Limited hours of operation with no call
- ◆ CR technology deployed with no redundancy
- ◆ Locally developed P&P (not standardized)
- ◆ 2,500 estimated total (radiology only) procedures completed during 2007
- ◆ Completely manual process for tracking procedures (poorly completed)
- ◆ No loaned film tracking system in place
- ◆ Absence of historical reference procedures for inmates
- ◆ Film files have been purged – 7 years not available

Technology

- ◆ Computed Radiology (CR) deployed but isolated with no archive backup
- ◆ No LAN or WAN available
- ◆ Use IMSATS for tracking
- ◆ No procedural tracking system in place (Analog Manual)
- ◆ Dental technology evolving to digital (stand alone configuration only)

Professional

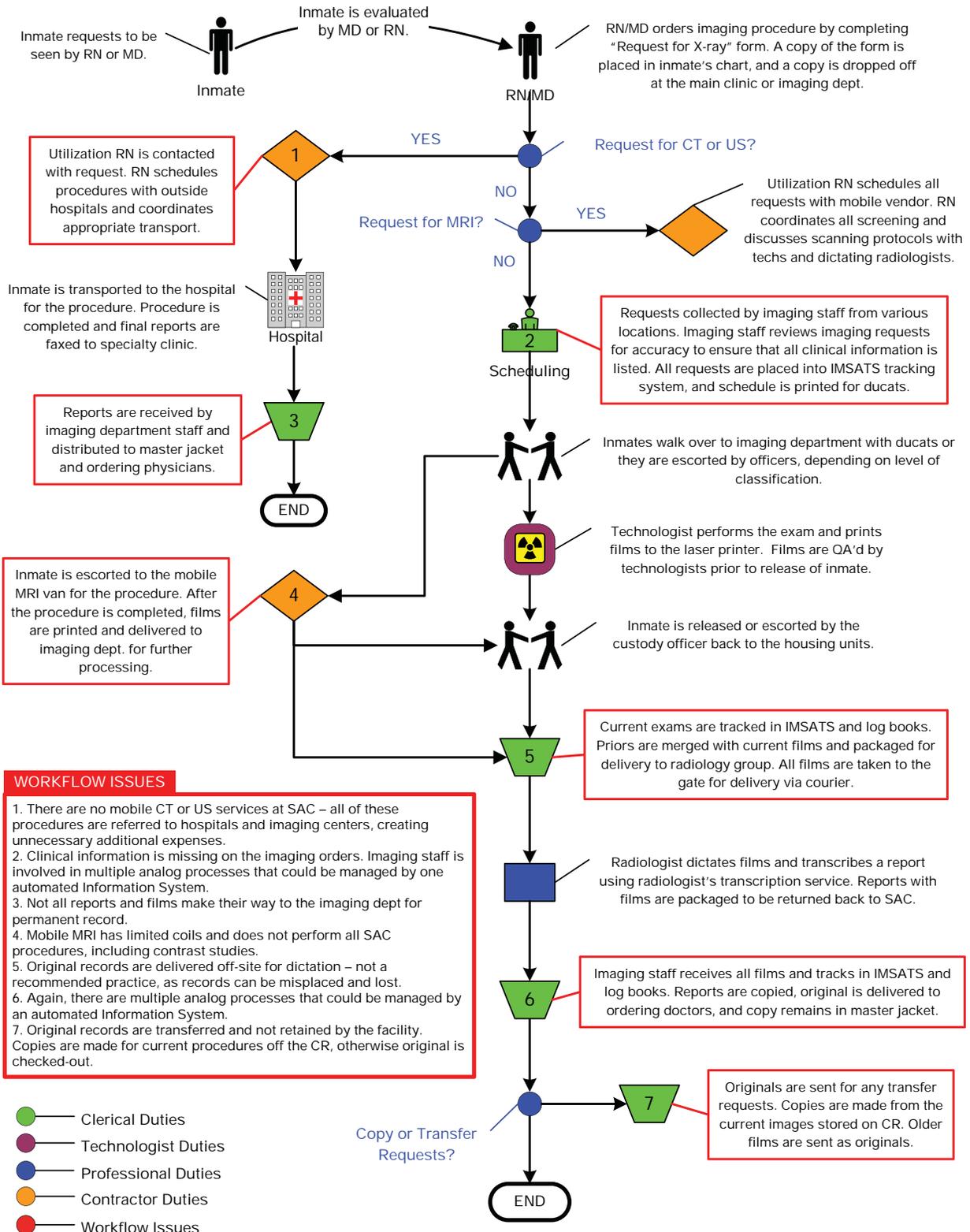
- ◆ No mobile MRI services
- ◆ No designated pad or power for mobile MRI
- ◆ Limited capability on MRI because of lack of coils
- ◆ CT and U/S studies are sent out to contracted providers
- ◆ Use Mercy Folsom, UCDCMC and/or Doctors of Manteca Hospitals
- ◆ Utilize Mercy Radiology Group for interpretation

Device Matrix

SAC – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Del Medical IN Series	XR Unit	Main Dept	Analog	Functional	N/A	No Fluoro or Tomo, AEC ok, Eureka tube ok, upright/table bucky ok
2	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS box attached
3	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	No Pan or Zoom available
4	Fuji DryPix5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Prints 3 sizes of film (8x10,10x12, 14x17)
5	GE Echosped Plus 1.5T	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging, limited coils available for small extremities

Imaging Department Workflow

Current State - SAC



Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.

Valley State Prison for Women (VSPW)



Operations

- ◆ 3 technologists and 2.5 clerical OT (temp employees)
- ◆ Hours of operation: 7:00 a.m. to 3:00 p.m.
- ◆ 60 day backlog for Mammography
- ◆ Apollo Rad/Fluoro equipment deployed
- ◆ Used Mammo unit on-site but not utilized
- ◆ CONEX box used for film storage (not air-conditioned)

Technology

- ◆ Computed Radiology (CR) deployed but isolated with no archive backup
- ◆ No LAN available
- ◆ Microsoft™ Access, no IMSATS, used to track patient procedure scheduling

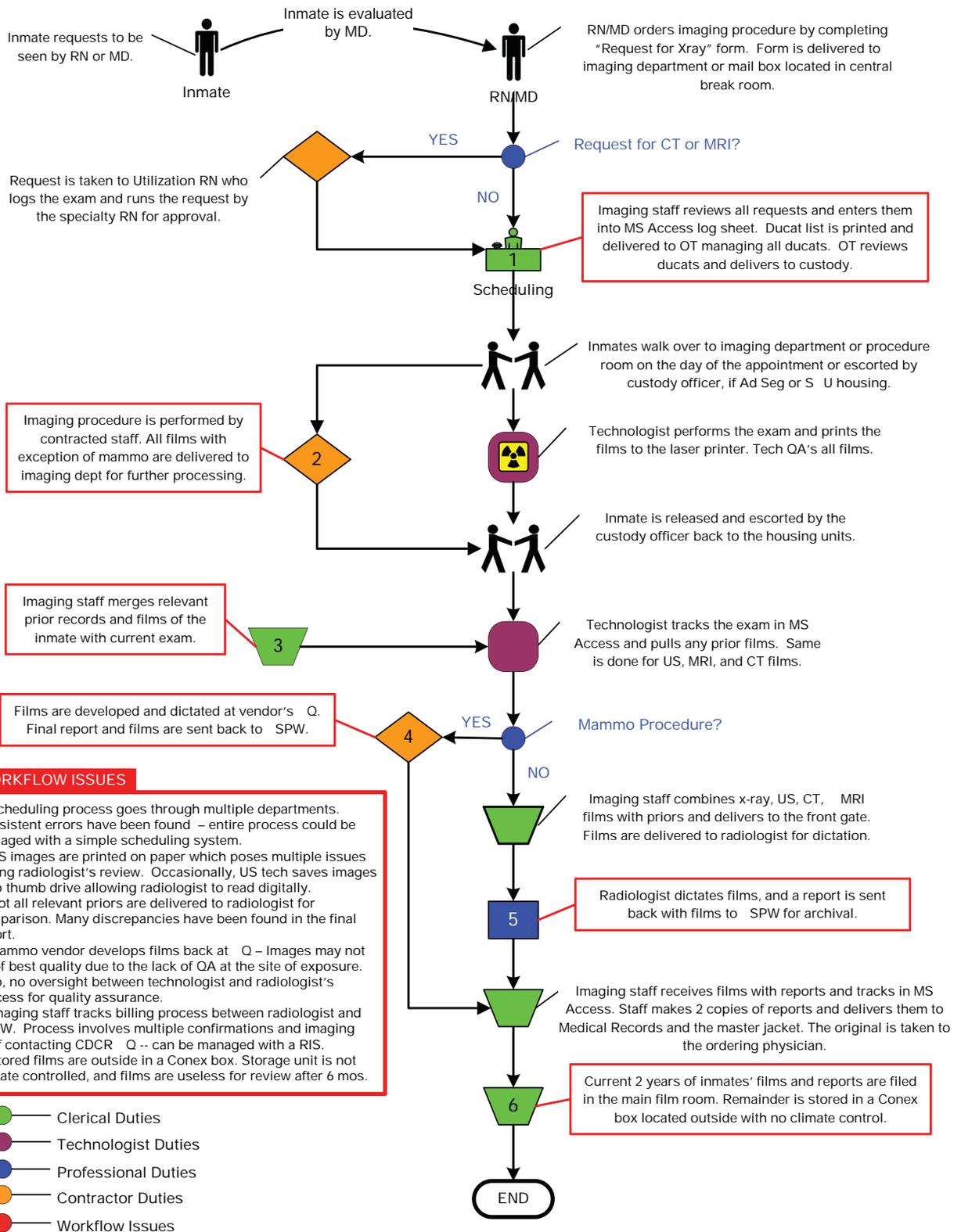
Professional

- ◆ Mobile MRI service one day per week
- ◆ Mobile CT service one day per week
- ◆ Mobile US one day per week (images loaded on thumb drive for reading) HIPAA?
- ◆ Mobile Mammography used (Mammography sent off-site)
- ◆ No mobile MRI or CT pad available (No power or network or telecom)
- ◆ Madera Community Hospital used for off-site services

Device Matrix

VSPW – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Apollo G100 RF-A	RF Unit	Main Dept	Analog	Functional	N/A	No collimator display, anchoring is unstable, no fluoro safety shield
2	Del Medical Overhead Tube	XR Unit	Main Dept	Analog	Functional	N/A	Not Native Tube to Apollo
3	GE Performa	Mammo Unit	Storage Room	Analog	Down	No DICOM	Not certified, all parts disconnected in a box
4	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS box available
5	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	No pan or zoom, no barcode reader
6	Fuji DryPix5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Utility screen malfunctions, prints 3 sizes of film (8x10, 10x12, 14x17)
7	Kodak X-OMAT 5000RA	Film Processor	Dark Room	Analog	Functional	N/A	Currently used for dental films
8	Siemens Magnetom 1.5T	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging, all coils available, pressure injector available
9	GE ProSpeed	CT Unit	Mobile	Analog	Functional	No DICOM	Shared Imaging, limited helical and reformatting capabilities
10	Sonoace 5500	US Unit	OBGYN Office	Digital	Functional	No DICOM	Specifically used by OB physician, Mitsubishi paper printer, two transducers, no network jack (DVI output available)
11	Lorad T350	Mammo Unit	Mobile	Analog	Functional	No DICOM	Serviced by Pacific Coast Medical Services
12	Acuson 128XP/10	US Unit	US Room	Digital	Functional	No DICOM	No Echo or Doppler, thumb drive used for image transfers and reviews

Imaging Department Workflow Current State - VSPW



Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.

California Correctional Women's Facility (CCWF)



Operations

- ◆ Two (2) techs no clerical support
- ◆ 60 day backlog for Mammography
- ◆ Apollo Rad/Fluoro equipment deployed
- ◆ Certified Mammography program in place

Technology

- ◆ Rad unit in receiving yard (not utilized)
- ◆ Mammo unit on-site and utilized
- ◆ Computed Radiology (CR) deployed but isolated with no archive backup
- ◆ No LAN available (T-1 line for teleradiology)
- ◆ Microsoft™ Access used to track patient procedure scheduling

- ◆ U/S uses codonics printer
- ◆ Some digital dental – Analog panorex (stand alone configuration)

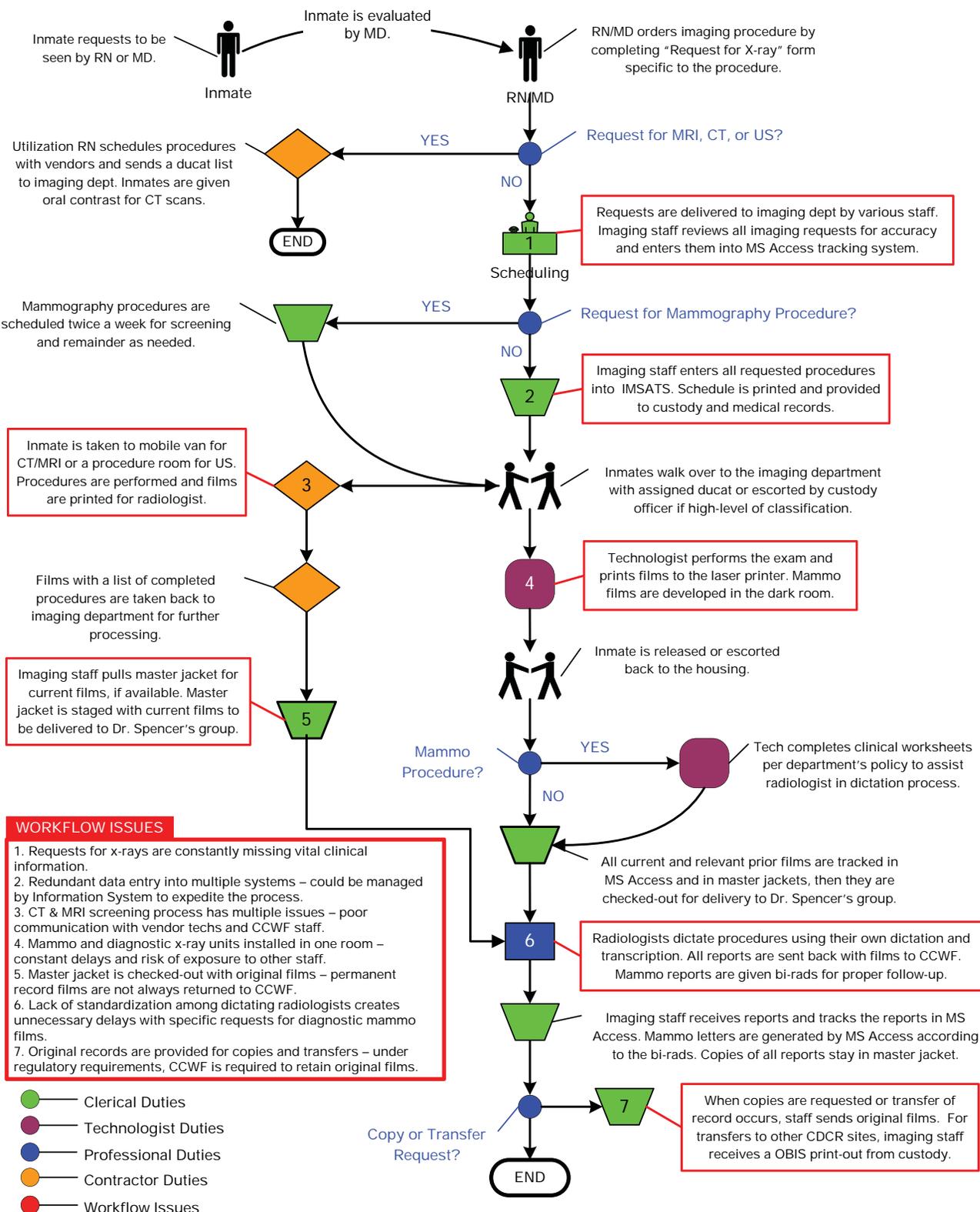
Professional

- ◆ Mobile MRI/CT service every week (80% procedures requested repeat because of poor quality)
- ◆ Mobile U/S two (2) times per week
- ◆ No mobile MRI or CT pad available (No power or network or telecom)
- ◆ Madera Community Hospital used for off-site
- ◆ Radiologist occasionally comes on-site to perform procedures

Device Matrix

CCWF – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Apollo G100 RF-A	RF Unit	Main Dept	Analog	Functional	N/A	No collimator display, anchoring is unstable, no fluoro safety shield
2	Del Medical Overhead Tube	XR Unit	Main Dept	Analog	Functional	N/A	Not native tube to Apollo, Eureka tube ok, auto collimation ok
3	CPI Indico Plus	XR Unit	Facility A	Analog	Functional	N/A	Modality not in use, no film-processing ability at the yard
4	GE 800T	MG Unit	Main Dept	Analog	Functional	N/A	In the same room as XR/RF Unit, system ID 559665MAMO
5	GE ProSeries Logiq400	US Unit	US Room	Digital	Functional	Native DICOM	Staffed by Mediscan Staffing.
6	Codonics Printer	US Printer	US Room	Digital	Functional	Native DICOM	Dedicated US printer
7	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS box available
8	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	no pan or zoom, no barcode reader
9	Fuji DryPix5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Prints 3 sizes of film (8x10, 10x12, 14x17)
10	Multi Rad 860 (Teleradiology)	Film Digitizer	QA Room	Digital	Functional	Limited DICOM	Used for call reports
11	Kodak X-OMAT 5000RA	Film Processor	Dark Room	Analog	Functional	N/A	Currently used for mammo films
12	Byers LAB Systems 355A	Film Copier	Dark Room	Analog	Functional	N/A	Occasionally used for film duplication
13	GE ProSpeed	CT Unit	Mobile	Analog	Functional	No DICOM	Shared Imaging, limited helical and reformatting capabilities
14	Siemens Magnetom 1.5T	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging, all coils available, pressure injector available

Imaging Department Workflow Current State - CCWF



Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.



San Quentin State Prison (SQ)



Operation

- ◆ 1.4 registry technologists (work 10 hour shifts) and 1 OT
- ◆ Hours of operation: 6:00 a.m. to 4:00 p.m.
- ◆ Original films are sent with inmate for referrals
- ◆ P&P's are non-standard (locally developed)
- ◆ OT is knowledgeable of operations, very helpful to registry techs
- ◆ Recruiting technologist is difficult due to low salary for high-cost area
- ◆ New medical facilities under construction, will include CT services

Technology

- ◆ No LAN
- ◆ No CR
- ◆ Have IMSATS and log books
- ◆ Portable x-ray unit in use
- ◆ Film duplicator in use
- ◆ Audio tape Dictaphone used for dictation
- ◆ Mobile US vendor (paper print-outs for archive)
- ◆ Dental technology evolving to digital (stand alone configuration only)

Professional

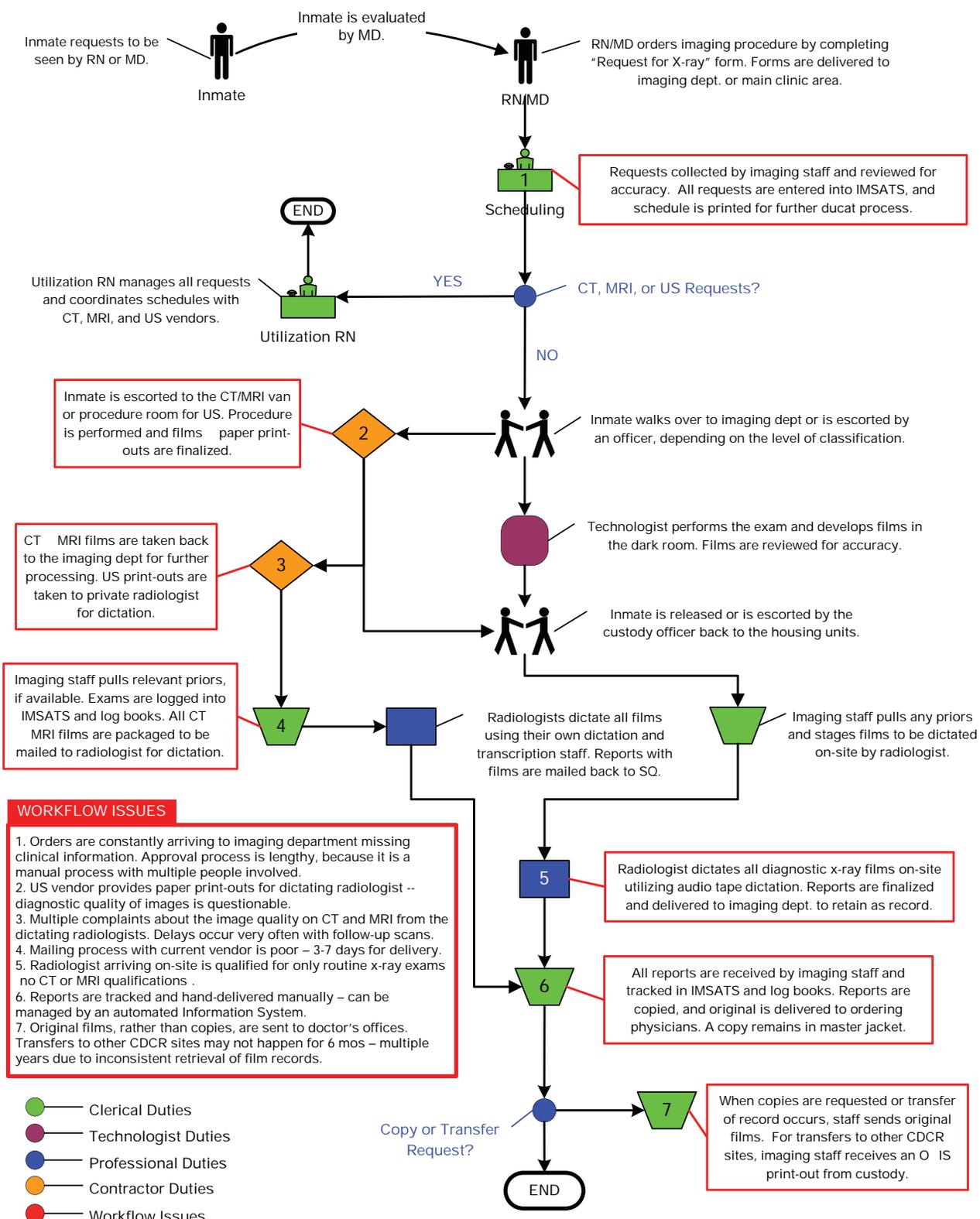
- ◆ Local radiologist (Epstein) on site for X-ray interpretation-3 days a week
- ◆ Mobile MRI
- ◆ Mobile CT
- ◆ Hospitals utilized- Emergent/Marin General. Doctors Medical Center (San Pablo)
- ◆ Radiology Group utilized- Queen of the Valley in Napa
- ◆ Mobile Pad available (asphalt only with no power or telecom)

Device Matrix

SQ – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Continental CX MAM CP III	XR/RF Unit	Main Dept	Analog	Functional	N/A	No Tomo, spot films ok, upright/table bucky ok, AEC ok
2	GE AMX II	Portable XR	Portable	Analog	Functional	N/A	Model A-102, not used very often
3	LAB Systems Duplicator	Film Copier	Main Dept	Digital	Functional	Native DICOM	Model 315A, used for copies
4	Konica Minolta	Film Processor	Dark Room	Analog	Functional	N/A	Currently in use for films and copies
5	Phillips Intera OMNI 1.5T	MRI Unit	Mobile	Digital	Functional	N/A	Shared Imaging, all coils available
6	GE ProSpeed	CT Unit	Mobile	Analog	Functional	N/A	Shared Imaging, limited helical and reformatting capabilities
7	Biosound MyLab30 CV	US Unit	Mobile	Digital	Functional	Native DICOM	US Diagnostics Inc, Doppler, ECHO capable, CD archive capable, paper print-out for every site

Imaging Department Workflow

Current State - SQ



Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.

Correctional Training Facility (CTF)



Operations

- ◆ 3 technologists and 1 OT
- ◆ Hours of operation: 6:00 a.m. to 3:30 p.m. with on-call for after hours
- ◆ Off-site medical facilities not returning loaned films
- ◆ Non-standard P&P's, copied from other facility
- ◆ R/F room is obsolete, no longer supported by original manufacturer
- ◆ This is one of the sites that does do fluoroscopy exams

Technology

- ◆ No LAN
- ◆ No CR
- ◆ Portable X-Ray unit in use
- ◆ No use of IMSATS
- ◆ MS Access database used for tracking
- ◆ Film duplicator in use
- ◆ Mobile CT & MRI (no phone in the mobile unit)
- ◆ Mobile US (paper print-outs only)
- ◆ Dental is hybrid (some digital some not) All units stand alone configuration
- ◆ CTF is currently considering Dental area for the new diagnostic facility

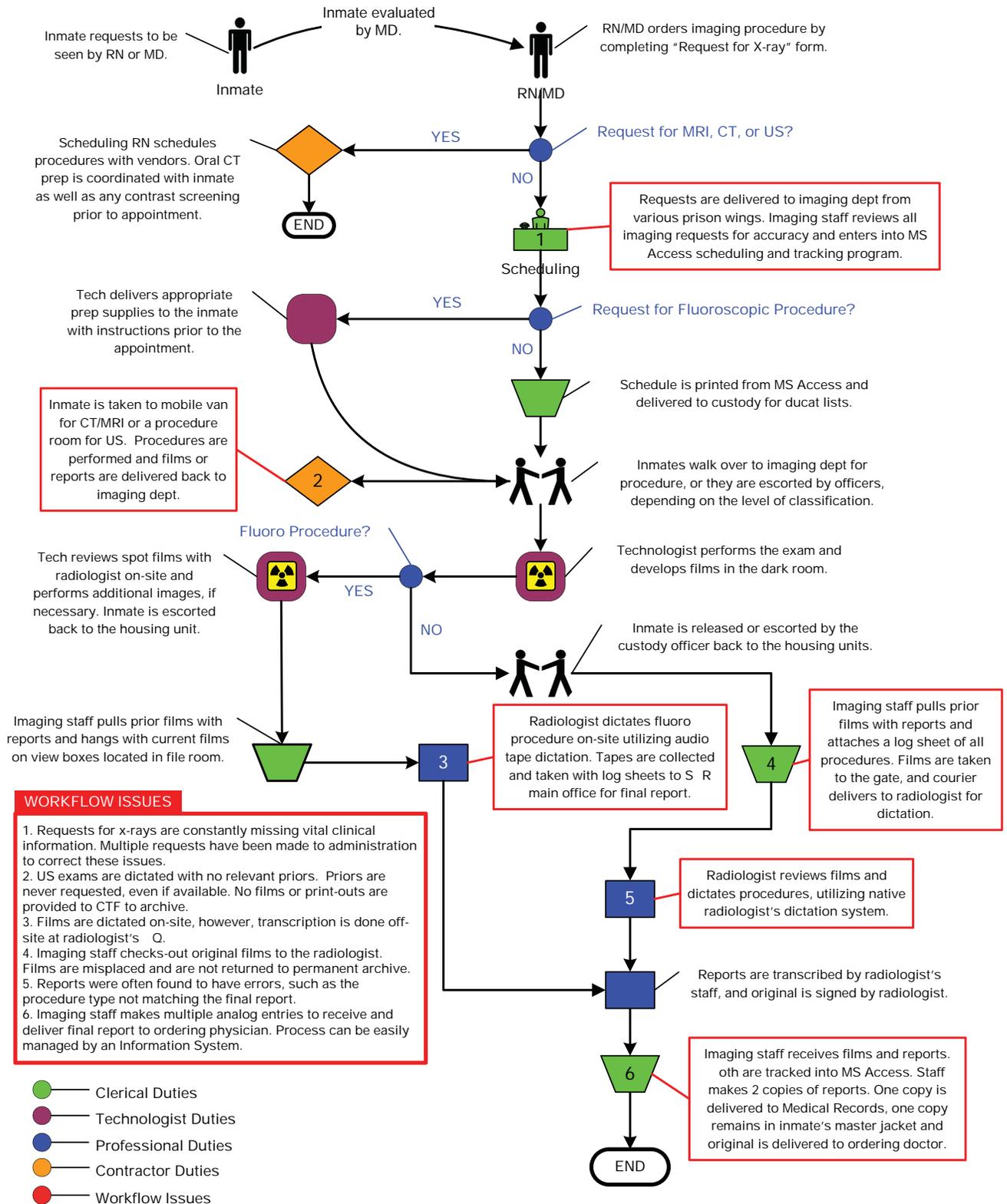
Professional

- ◆ Mobile MRI (every Mon and Thurs). Pad and power is good
- ◆ Mobile CT (every two weeks)
- ◆ Mobile US
- ◆ Emergent Care Hospital/Natividad and Salinas Valley
- ◆ Mobile tech sometimes late for start of scheduled day (creates issues for custody staff)
- ◆ CT injector problems
- ◆ Rad Interpretation-Salinas Valley Radiologists
- ◆ TAT-less than two weeks/Faxed report 24-48 hour

Device Matrix

CTF – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Picker Clinix RF	XR/RF Unit	Main Dept	Analog	Functional	N/A	Table bucky not working, upright bucky ok
2	DynaRad HF-110A	Portable XR	Portable	Analog	Functional	N/A	None
3	Kodak RP X-OMAT	Film Processor	Dark Room	Analog	Functional	N/A	Currently in use
4	360D Duplicator XMA	Film Copier	Dark Room	Analog	Functional	N/A	Used for copies
5	Siemens Magnetom 1.5T Avanto	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging, all coils available
6	GE ProSpeed	CT Unit	Mobile	Analog	Functional	N/A	Shared Imaging, limited helical and reformatting capabilities
7	Biosound MyLab30 CV	US Unit	Mobile	Digital	Functional	Native DICOM	US Diagnostics Inc, Doppler, ECHO capable, CD archive capable, paper print-out for every site

Imaging Department Workflow Current State - CTF



Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.

Salinas Valley State Prison (SVSP)



Operations

- ◆ 2 technologists and 1 OT (OT located in administration section)
- ◆ Hours of operation: 8:00 a.m. to 6:00 p.m.
- ◆ Fluoro exams done once per week by radiology group (SVR)

Technology

- ◆ No LAN
- ◆ CR deployed without archive backup
- ◆ IMSATS and log books used for tracking
- ◆ New Apollo RF unit deployed
- ◆ Film duplicator in use
- ◆ Mobile US vendor (no paper archive, only reports)
- ◆ Dental technology evolving to digital (stand alone configuration only)

Professional

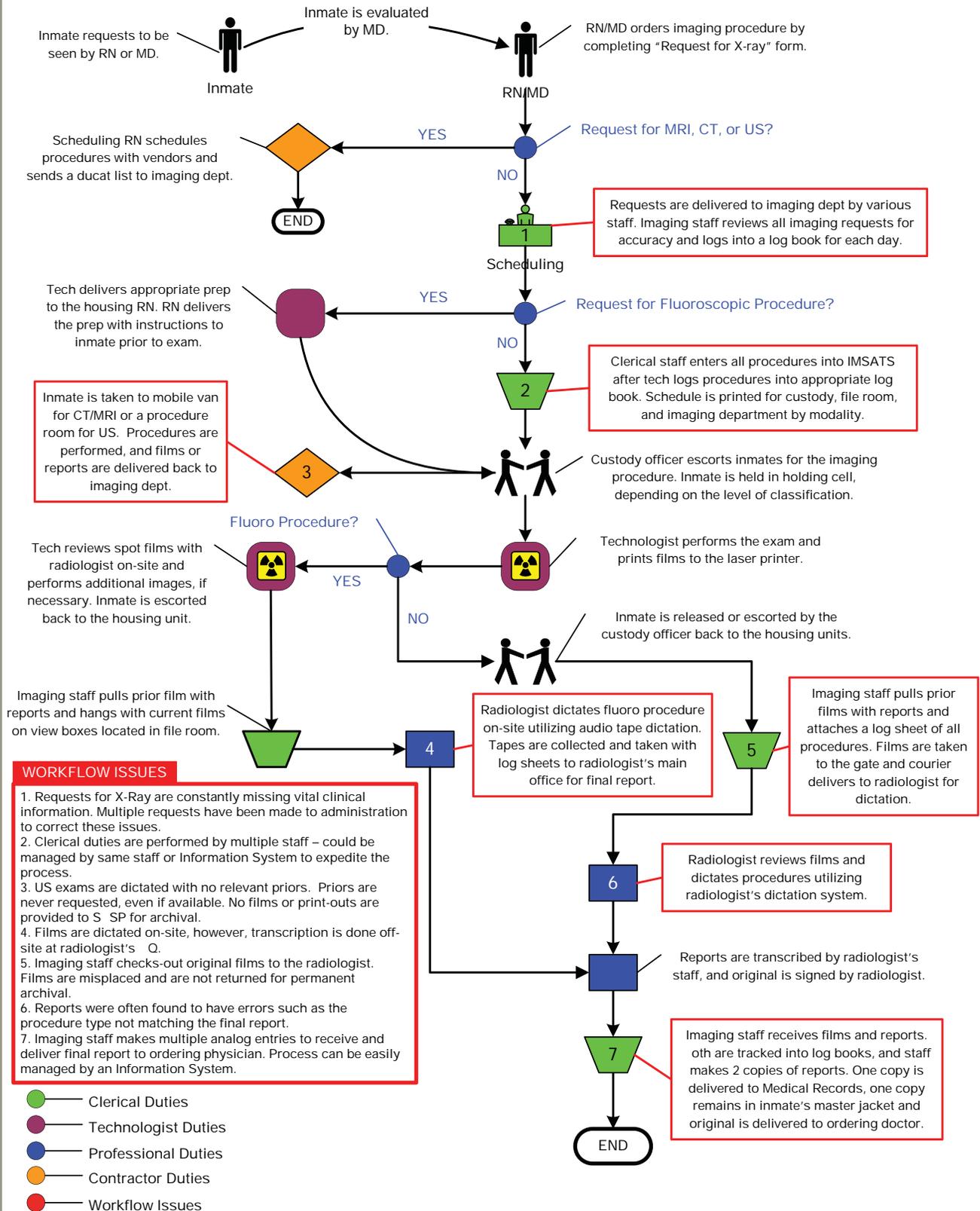
- ◆ Mobile MRI- (SVR complains that image quality is poor).
- ◆ Mobile CT- (SVR complains that image quality is poor).
- ◆ Mobile US (includes technical and professional components)
- ◆ No collaboration on contracting (CTF in South division, SVSP in North division)
- ◆ Off-Site Imaging Centers/Salinas and Natividad
- ◆ Emergent Care Hospital/Salinas Valley Memorial Hospital
- ◆ Rad Group/SVR-Rad comes once a week for Fluoro.
- ◆ No shows and cancellations for Mobile equipment
- ◆ Staffing issues (4 CO's per building)
- ◆ Custody issues (1-5 inmates per day)

Device Matrix

SVSP – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Apollo G100 RF-A	RF Unit	Main Dept	Analog	Functional	N/A	No collimator display, anchoring is unstable, no fluoro safety shield
2	Del Medical Overhead Tube	XR Unit	Main Dept	Analog	Functional	N/A	Not Native Tube to Apollo
3	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS Box available
4	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	No Pan or Zoom available
5	Fuji DryPix5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Prints 3 sizes of film (8x10, 10x12, 14x17)
6	Konica SRX-301	Film Processor	Dark Room	Analog	Functional	N/A	Used for backup and develop copies
7	XMA - Film Duplicator	Film Copier	Dark Room	Analog	Functional	N/A	Used for copies
8	Siemens Magnetom 1.5T Avanto	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging, all coils available, pressure injector available
9	GE ProSpeed	CT Unit	Mobile	Analog	Functional	N/A	Shared Imaging, limited helical and reformatting capabilities
10	Acuson Cypress	US Unit	Mobile	Digital	Functional	Native DICOM	US Institute Medical Group provides US services; Echo, vascular, paper printer, & DICOM capable unit

Imaging Department Workflow

Current State - SVSP



Ironwood State Prison (ISP)



Operations

- ◆ 2 technologists (work 10 hour days), no clerical support
- ◆ Hours of operation: 6:30 a.m. to 4:00 p.m.
- ◆ No CT service (use external vendor, RCRMC 175 miles one-way)
- ◆ P&P's locally developed (non-standard)

Technology

- ◆ No LAN
- ◆ CR deployed
- ◆ No IMSATS
- ◆ No registrations system (use log books for tracking)
- ◆ film duplicator in use
- ◆ Dental technology evolving to digital (stand alone configuration only)

Professional

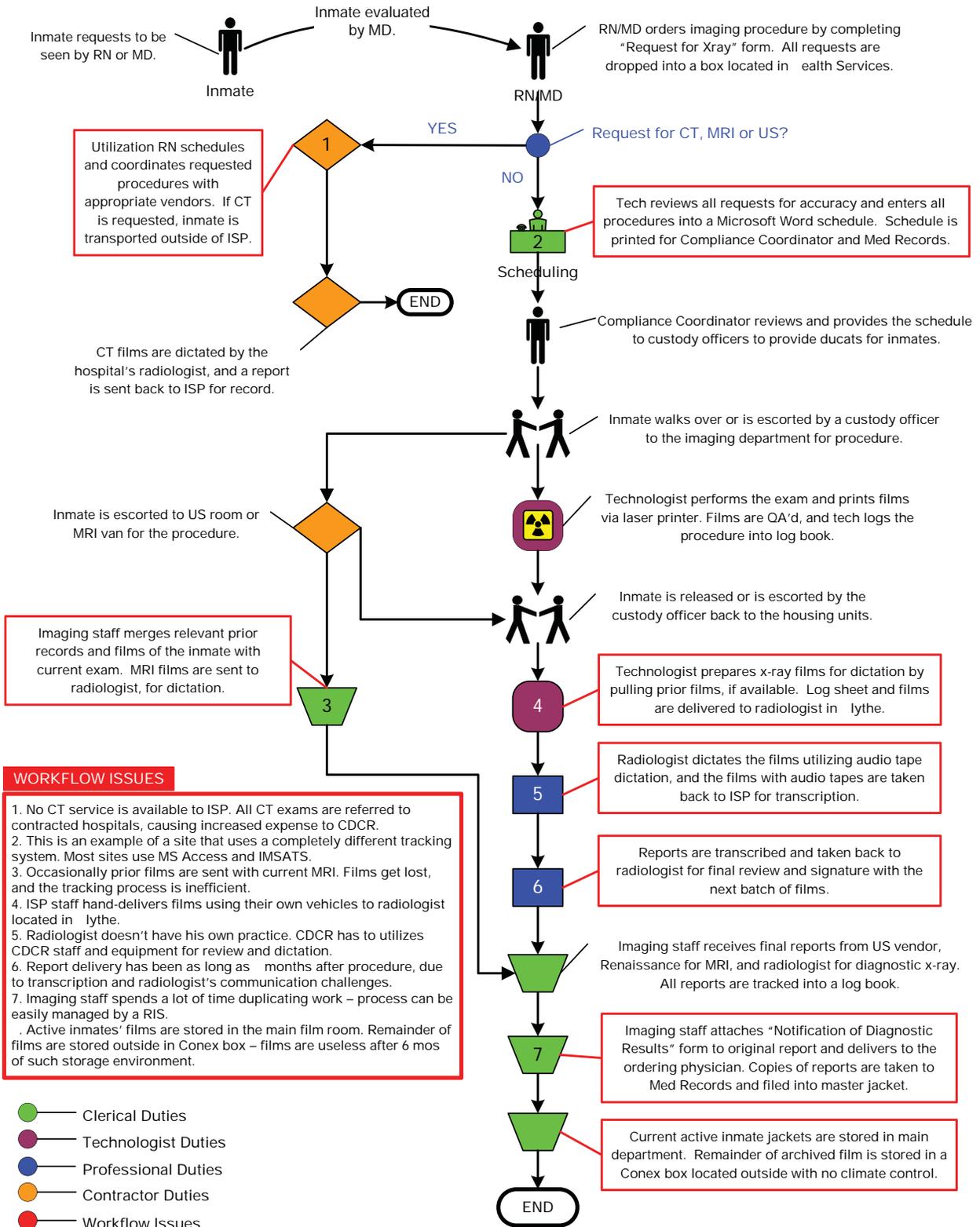
- ◆ Mobile US (every 2 weeks)
- ◆ Emergent Care Hospital-Palos Verde Hospital
- ◆ Radiology Group- Dr. Bowen from PVH (Transcription at hospital slow, Bowen classifies as Stat for faster service)
- ◆ Radiology Group-Renaissance Imaging
- ◆ Ambulance Service-Blythe Ambulance (County Designate)
- ◆ Secondary- Desert Air
- ◆ MRI unit is down frequently
- ◆ Mobile MRI 1 day a week
- ◆ Prison could own MRI unit and contract with local hospital to provide more points of service for community
- ◆ CO's do a good job of doubling and tripling up of inmates for transfer when possible

Device Matrix

ISP – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/Digital	Condition	DICOM	Comments
1	Del Medical IN Series	XR Unit	Main Dept	Analog	Functional	N/A	No Fluoro/Tomo, AEC ok, eureka tube ok, upright/table bucky ok
2	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS box available
3	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	No Pan or Zoom available, barcode scanner attached
4	Fuji DryPix5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Prints 3 sizes of film (8x10, 10x12, 14x17)
5	Kodak X-OMAT 2000A	Film Processor	Dark Room	Analog	Functional	N/A	Used for processing copies
6	Byers LAB Systems 355A	Film Copier	Dark Room	Analog	Functional	N/A	Available for copies
7	Phillips Intera OMNI 1.5T	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging, all coils available
8	Acuson Cypress	US Unit	Mobile	Digital	Functional	Native DICOM	US Institute Medical Group provides US services; Echo, vascular, paper printer, & DICOM capable unit

Imaging Department Workflow

Current State - ISP



Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.

Chuckawalla Valley State Prison (CVSP)



Operations

- ◆ 1 technologist (no back-up), no clerical support (new tech hired as of 3/3/08)
- ◆ Hours of operation: 7:00 a.m. to 3:30 p.m.
- ◆ There are no mobile CT, MRI or US services, because there isn't a radiologist to read exams. (all studies go out 175 miles one-way)
- ◆ 20 year old obsolete equipment needs to be replaced
- ◆ Registry tech was not available during site visit, department was not staffed
- ◆ Unconditioned Conex boxes used for film storage (Films being destroyed from heat)
- ◆ Receiving facilities are not performing full dental workups (too many inmates per day). These are being performed at ISP.

Technology

- ◆ No LAN
- ◆ No CR
- ◆ No IMSATS (manual log books or MS Word for tracking)
- ◆ No fax
- ◆ No copy capability
- ◆ No mobile CT, MRI or US

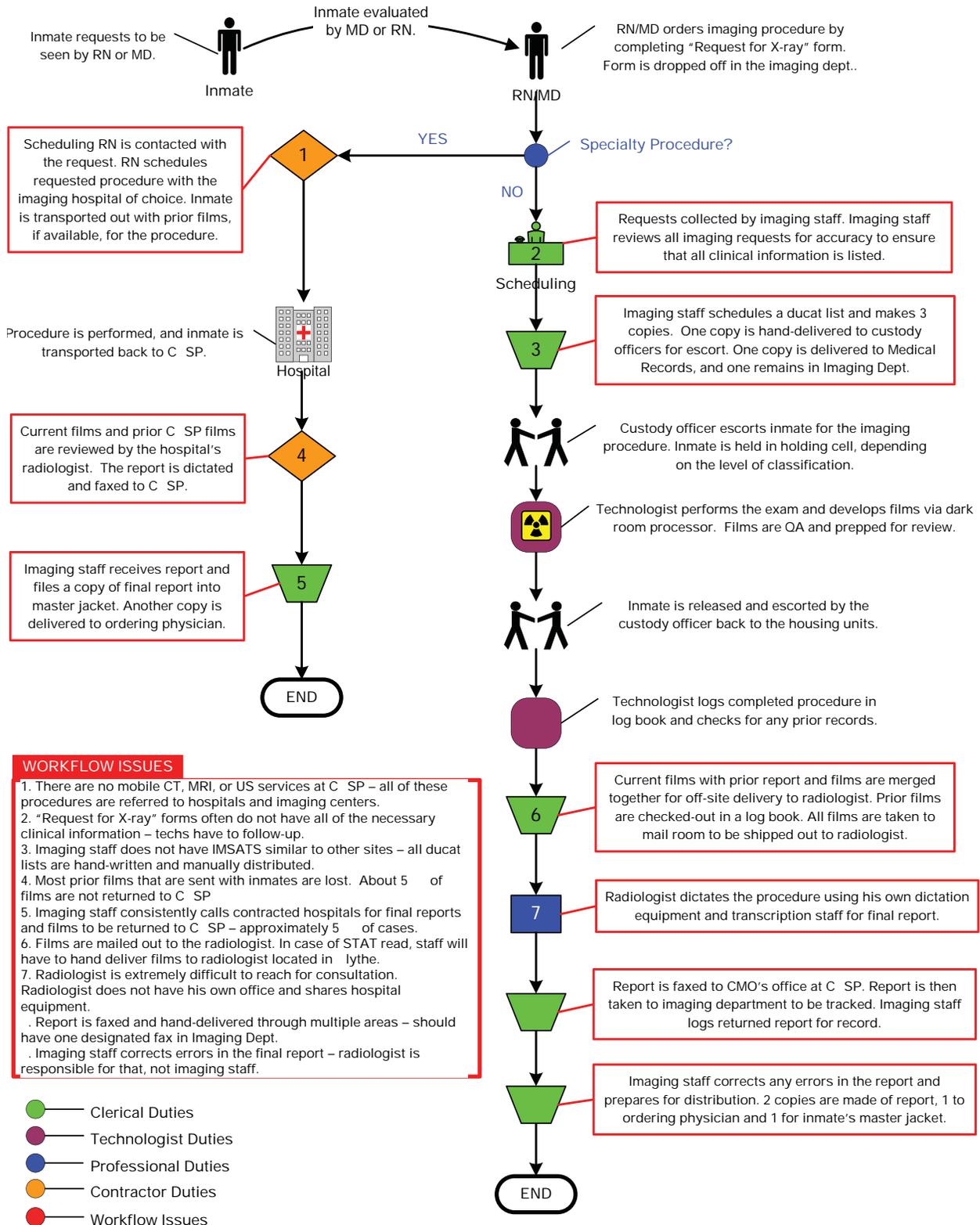
Professional

- ◆ CT, MRI, Nuc Med, US performed at Riverside County Regional Medical Center (175 miles one-way)
- ◆ Tech hours 7-3pm
- ◆ Emergent Care Hospital-P.V. Hospital (Poor relationship)
- ◆ Radiologist-Grossman
- ◆ Facility is getting MRI-Shore power (being installed)

Device Matrix

CVSP – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Picker Vector II (VTX 1050)	XR/RF Unit	Main Dept	Analog	Functional	N/A	No tomo, spot films, upright/table bucky, AEC
2	Konica SRX-301	Film Processor	Dark Room	Analog	Functional	N/A	Currently used

Imaging Department Workflow Current State - CVSP



California Medical Facility (CMF)



Operations

- ◆ 3 technologists, 1 supervisor and 1 OT (this is the only facility that has a supervisor)
- ◆ Hours of operation: 8:00 a.m. to 4:30 p.m., on-call after hours
- ◆ 2 x-ray rooms (fluoroscopy does not work on new R/F equipment)
- ◆ 1 CR (bottleneck work-flow issue with single CR reader serving two rooms)
- ◆ No imaging staff oversight of US, techs question quality of exams (patients not NPO, bladders not full, probe not used for prostate exams and no images provided to CMF)

Technology

- ◆ No LAN
- ◆ New Apollo RF unit (Poor install and high down time)
- ◆ C-Arm in use (no images saved on routine basis)
- ◆ 3 portable X-Ray units (one down for repairs)
- ◆ Dictaphone implemented to central voice server
- ◆ Multiple film duplicators in use
- ◆ IMSATS used for tracking
- ◆ MS Excel also used for exam tracking
- ◆ Dental technology evolving to digital (stand alone configuration only)

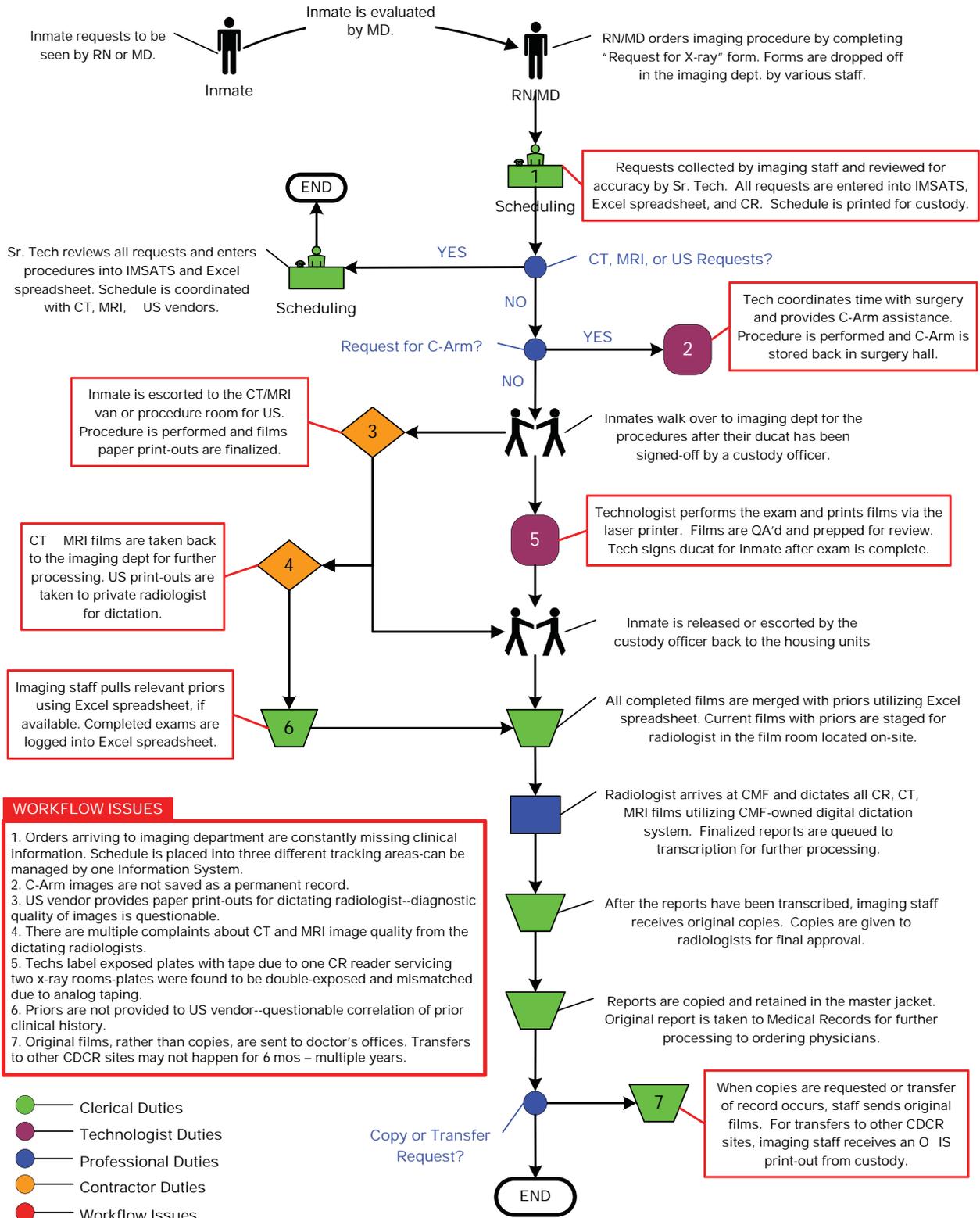
Professional

- ◆ Mobile MRI – Shared Imaging (good pad and power)
- ◆ Mobile CT – (Not Shared Imaging)
- ◆ Mobile US – Ultrasound Diagnostics
- ◆ Rad Group – Queen of the Valley
- ◆ Off Site Hospitals – Vaca-Valley; NorthBay Hospital in Fairfield; UC Davis
- ◆ Queen of the Valley radiologist's state that the MRI and CT imaged film is of poor quality, oftentimes exams are rescheduled for Queen of the Valley Hospital. (conflict)?

Device Matrix

CMF – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Apollo G100 RF-A	RF Unit	XR Room #1	Analog	Functional	N/A	Spot film down, table & anchors unstable, no lead shield, no collimator display
2	Del Medical Overhead Tube	XR Unit	XR Room #1	Analog	Functional	N/A	Collimator display ok, auto collimator ok
3	Picker MTX	XR Unit	XR Room #2	Analog	Functional	N/A	Tomo capable, upright/table bucky ok, auto detent collimator
4	GE AMX4	XR Portable	Reading Room	Analog	In OP	N/A	kVp and MAS do not display
5	Shimadzu MobileArt	XR Portable	Reading Room	Analog	Functional	N/A	Currently in use, 6ft cord, kvp/mas display ok, manual collimator ok
6	Rad Pro SM32HFB	XR Portable	Crisis Bed Unit	Analog	Functional	N/A	Stored in the Crisis Bed Unit
7	Ziehm Z Vista2000	C-Arm	OR Suite	Analog	Functional	N/A	Need DICOM Box, DVI available, paper printer onboard, angio capable
8	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS box attached, plates get stuck occasionally
9	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	No pan or zoom
10	Fuji DryPix5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Prints three 3 of films (8x10, 10x12, 14x17)
11	Kodak X-OMAT 5000RA	Film Processor	Dark Room	Analog	Functional	N/A	Used for dental and copies
12	Konica SRX-101	Film Processor	Dark Room	Analog	Functional	N/A	Backup processor, currently not in use
13	BluRay RXR	Film Duplicator	Dark Room	Analog	In OP	N/A	Not in use
14	BluRay RXR	Film Duplicator	Dark Room	Analog	In OP	N/A	Not in use
15	BluRay RXR	Film Duplicator	Dark Room	Analog	Functional	N/A	Used for copies
16	Lanier	Dictaphone	Reading Room	Digital	Functional	N/A	Topology server available for prelim review
17	GE Excite 9.0 (1.5 Tesla)	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging, limited coils, pressure injector available
18	GE ProSpeed	CT Unit	Mobile	Analog	Functional	N/A	CA Technologies, limited helical and reformatting capabilities
19	Biosound MyLab30 CV	US Unit	Mobile	Digital	Functional	Native DICOM	US Diagnostics Inc, Doppler, ECHO capable, CD archive capable, paper print-out for every site

Imaging Department Workflow Current State - CMF



Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.

California State Prison, Solano (SOL)



Operations

- ◆ 1 full-time technologist, .6 registry technologist and 1 OT
- ◆ Hours of operation: 8:00 a.m. to 4:00 p.m.
- ◆ Busy mobile CT (2 days per week) and MRI (3 days per week)
- ◆ Films being loaned are copied by CMF

Technology

- ◆ No LAN
- ◆ Have CR (has artifact during algorithm processing)
- ◆ IMSATS used for tracking
- ◆ film duplicators in use
- ◆ No FAX machine
- ◆ MS Excel (spreadsheet for billing)
- ◆ Mobile MRI & CT (operational issues)
- ◆ US vendor on-site (paper print-outs, no CD archived for dynamic studies)
- ◆ Dental technology evolving to digital (stand alone configuration only)

Professional

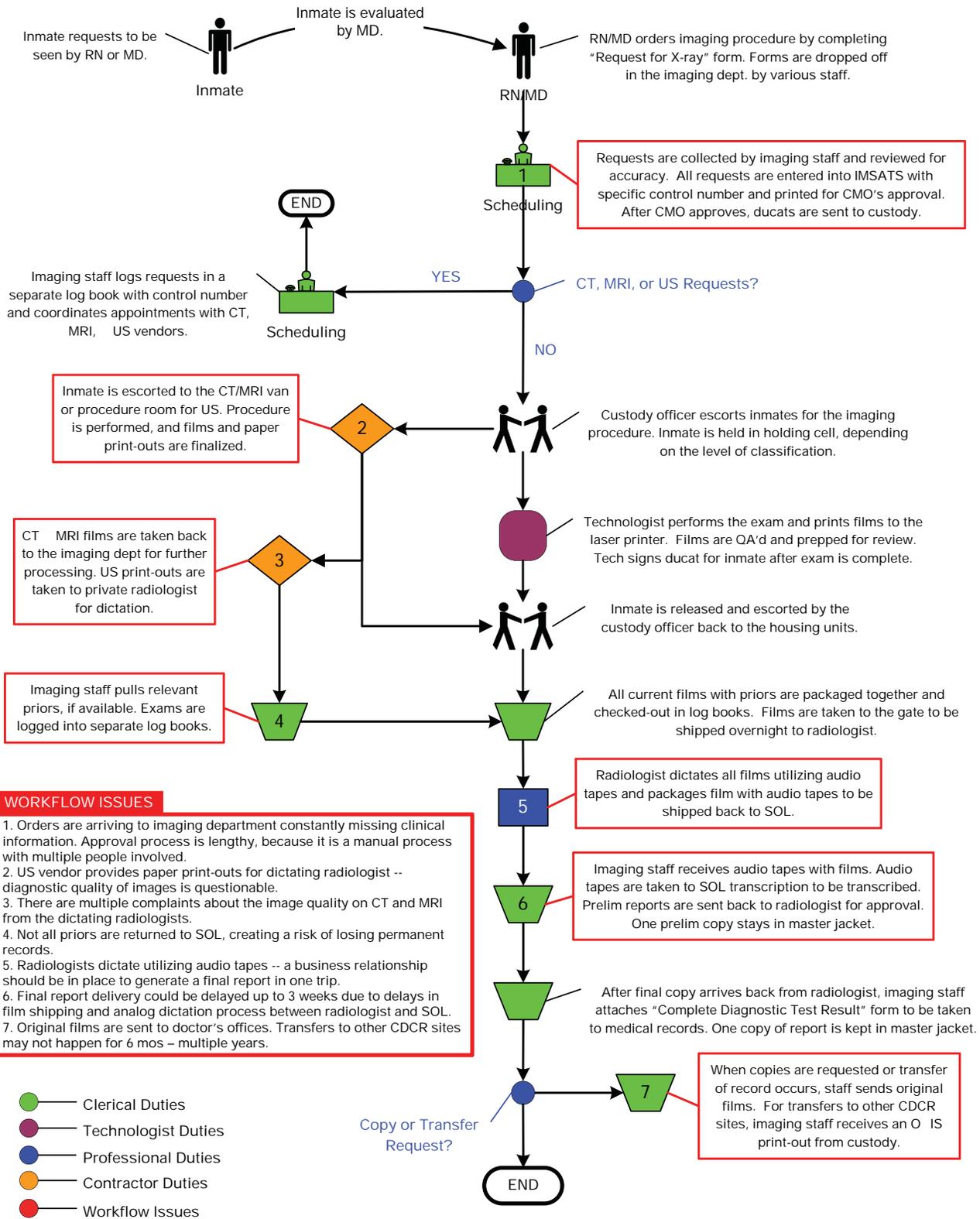
- ◆ Mobile MRI-Shared Imaging (asphalt pad – generator power only)
- ◆ Mobile CT – (Not Shared Imaging)
- ◆ Mobile US – Ultrasound Diagnostics
- ◆ Rad Group – Queen of the Valley
- ◆ Off Site Hospitals – Vaca-Valley; NorthBay Hospital in Fairfield; UC Davis
- ◆ Queen of the Valley radiologist's state that the MRI and CT imaged film is of poor quality, oftentimes exams are rescheduled for Queen of the Valley Hospital. (conflict)?

Device Matrix

SOL – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Del Medical IN Series	XR Unit	Main Dept	Analog	Functional	N/A	No Fluoro or Tomo, AEC ok, Eureka tube ok, auto collimator not working
2	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS box attached
3	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	Artifact during algorithm processing for L-Sp & Abd views
4	Fuji DryPix5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Not anchored, prints 3 sizes of film (8x10, 10x12, 14x17)
5	Kodak RP X-OMAT	Film Processor	Dark Room	Analog	Down	N/A	Cleaned and chemicals removed, could be used if needed
6	Techno-Aide 195D	Film Duplicator	Dark Room	Analog	Down	N/A	Not is use due to lack of film processor
7	GE 1.5T Echospeed Plus	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging, limited coils
8	GE ProSpeed	CT Unit	Mobile	Analog	Functional	N/A	CA Technologies, limited helical and reformatting functions
9	Biosound MyLab30 CV	US Unit	Mobile	Digital	Functional	Native DICOM	US Diagnostics Inc, Doppler, ECHO capable, CD archive capable, paper print-out for every site

Imaging Department Workflow

Current State - SOL



WORKFLOW ISSUES

- Orders are arriving to imaging department constantly missing clinical information. Approval process is lengthy, because it is a manual process with multiple people involved.
- US vendor provides paper print-outs for dictating radiologist -- diagnostic quality of images is questionable.
- There are multiple complaints about the image quality on CT and MRI from the dictating radiologists.
- Not all priors are returned to SOL, creating a risk of losing permanent records.
- Radiologists dictate utilizing audio tapes -- a business relationship should be in place to generate a final report in one trip.
- Final report delivery could be delayed up to 3 weeks due to delays in film shipping and analog dictation process between radiologist and SOL.
- Original films are sent to doctor's offices. Transfers to other CDCR sites may not happen for 6 mos - multiple years.

Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.

California State Prison, Corcoran (COR)



Operations

- ◆ 2 technologists and 1 OT
- ◆ Hours of operation; 7:30 a.m. to 3:30 p.m. with on-call for after hours
- ◆ Ultrasound equipment owned by CHS, staffed by contract sonographer

Technology

- ◆ No LAN
- ◆ No CR unit deployed or in use
- ◆ IMSATS used for tracking
- ◆ C-Arm (no images saved)
- ◆ 2 portable x-ray units
- ◆ film duplicators in use
- ◆ audio-tape Dictaphone in use for dictation

- ◆ Mobile CT & MRI (missing sequences, poor images on CT, anatomy cut-off, scanners cannot provide coronal and sagittal views)
- ◆ Dental technology evolving to digital (stand alone configuration only)

Professional

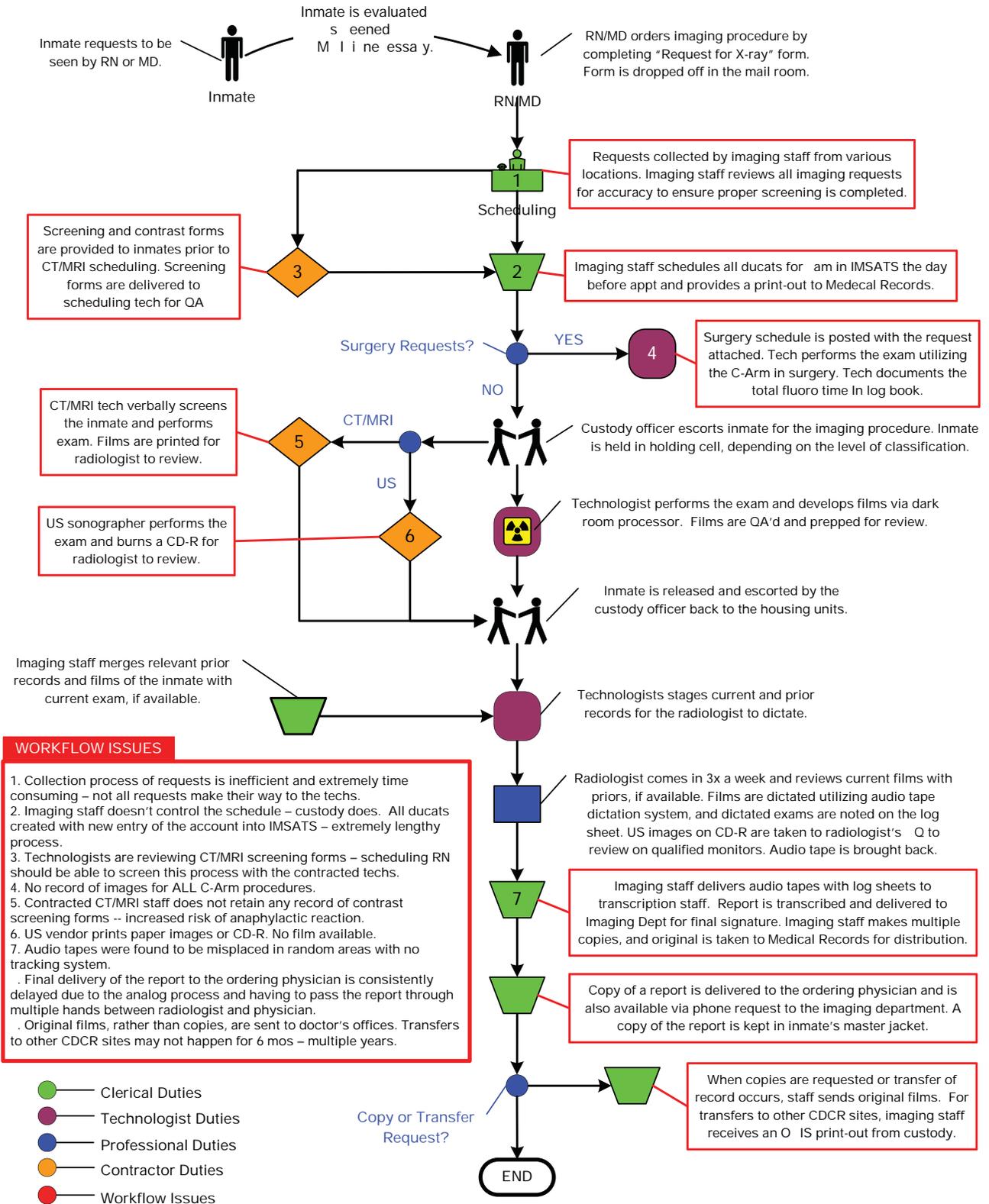
- ◆ Independent Radiologist (Dr. McClain)
- ◆ Mobile CT and MRI provided by Shared Imaging
- ◆ Off-site facilities; Regional Medical Center (Fresno); Mercy (Bakersfield); Tulare District; UCSF and Stanford (Nuclear Medicine)
- ◆ U.S. performed by Yvette Gabriel (6-7 patients every Thursday and Friday)

Device Matrix

COR – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	GE Advantx	XR/RF	Main Dept	Digital	Functional	N/A	Spot film capable, upright/table bucky ok
2	DRS Digital Box	RF Digital Box	File Room	Digital	Functional	No network port	VCR connected and fully functional
3	Shimadzu Mobile Star	Portable XR	Radiology Hall	Analog	Functional	N/A	None
4	GE AMX4 Plus	Portable XR	Radiology Hall	Analog	Functional	N/A	None
5	Siemens G5435	C-Arm	OR Suite	Analog	Functional	Need DICOM Box	Laser printer onboard, Road Map & Subtraction capable
6	Konica SRX-701	Film Processor	Dark Room	Analog	Functional	N/A	Currently in use
7	BluRay RXR	Film Duplicator	Dark Room	Analog	Functional	N/A	Used for copies
8	Sony Audio	Dictaphone	Reading Room	Analog	Functional	N/A	Currently in use
9	GE Dry Cam	Laser Printer	Main Dept	Digital	Never Used	No network port	Anchored, no AC cord
10	Sonoace 9900 Prime	US Unit	US Room	Digital	Functional	Native DICOM	3D & ECHO capable, CD-R equipped, Windows OS
11	GE Pro Speed	CT Unit	Mobile	Analog	Functional	N/A	Shared Imaging, limited helical and reformatting functions
12	GE 1.5T Echosped Plus	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging

Imaging Department Workflow

Current State - COR



Inmate requests to be seen by RN or MD. Inmate is evaluated by RN/MD. RN/MD orders imaging procedure by completing "Request for X-ray" form. Form is dropped off in the mail room.

1 (Green): Requests collected by imaging staff from various locations. Imaging staff reviews all imaging requests for accuracy to ensure proper screening is completed.

2 (Green): Imaging staff schedules all ducats for exam in IMSATS the day before appt and provides a print-out to Medecal Records.

3 (Orange): Screening and contrast forms are provided to inmates prior to CT/MRI scheduling. Screening forms are delivered to scheduling tech for QA.

4 (Purple): Surgery schedule is posted with the request attached. Tech performs the exam utilizing the C-Arm in surgery. Tech documents the total fluoro time in log book.

5 (Orange): CT/MRI tech verbally screens the inmate and performs exam. Films are printed for radiologist to review.

6 (Orange): US sonographer performs the exam and burns a CD-R for radiologist to review.

7 (Green): Imaging staff delivers audio tapes with log sheets to transcription staff. Report is transcribed and delivered to Imaging Dept for final signature. Imaging staff makes multiple copies, and original is taken to Medical Records for distribution.

When copies are requested or transfer of record occurs, staff sends original films. For transfers to other CDCR sites, imaging staff receives an OIS print-out from custody.

END

Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.

California Substance Abuse Treatment Facility (CSATF)



Operations

- ◆ 2 technologists and a .5 temporary OT (techs need more clerical support)
- ◆ Hours of operation: 8:00 a.m. to 4:00 p.m.
- ◆ Mobile MR currently on site 4 times per week to catch up on back-log
- ◆ Fluoroscopic equipment available, but no radiologist available to do exams

Technology

- ◆ No LAN
- ◆ CR unit deployed
- ◆ New Apollo RF unit deployed
- ◆ No IMSATS in use
- ◆ MS Access in use for tracking
- ◆ FAX machine available
- ◆ No use of film duplicators
- ◆ Dental technology evolving to digital (stand alone configuration only)

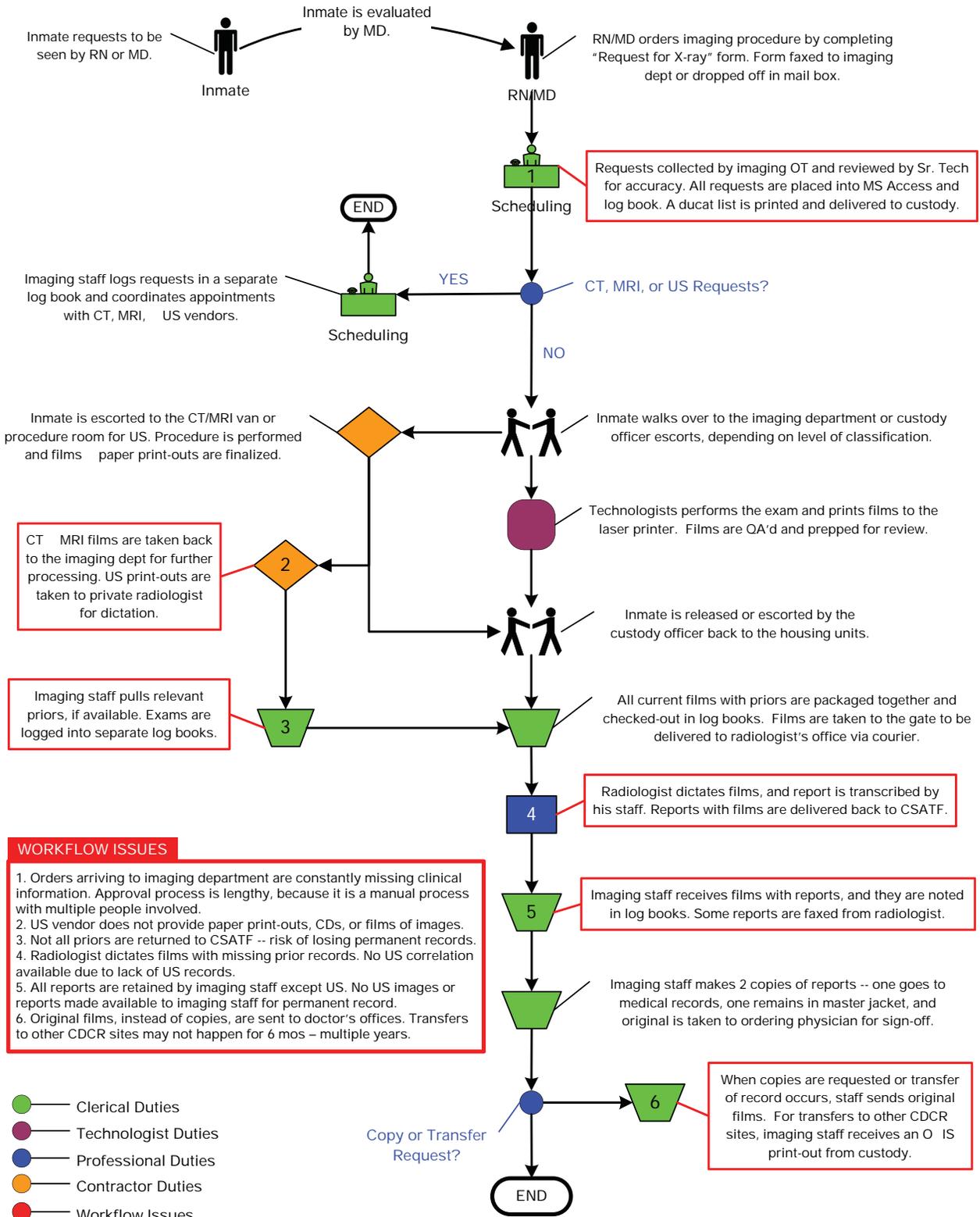
Professional

- ◆ Hospital’s utilized-Fresno; Mercy (Bakersfield); Corcoran; Alvarado-San Luis Obispo.
- ◆ Mobile US (every Friday) however there is no contract for US, so they are not ordering.
- ◆ Mobile CT and MRI are provided by Shared Imaging - (asphalt with shore power)

Device Matrix

CSATF – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Apollo G100 RF-A	RF Unit	Main Dept	Analog	Functional	N/A	Table can’t go vertical, no numeric display on overhead tube
2	Del Medical Overhead Tube	XR Unit	Main Dept	Analog	Functional	N/A	Not native tube to Apollo, Eureka tube, auto collimator is not working
3	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS box attached
4	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	No pan or zoom, no barcoder
5	Fuji DryPix5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Prints 3 sizes of film (8x10, 10x12, 14x17)
6	Konica SRX-301	Film Processor	Dark Room	Analog	Functional	N/A	Tray broken outside
7	Byers LAB Systems 355A	Film Copier	Dark Room	Analog	Down	N/A	Not in use
8	GE ProSpeed	CT Unit	Mobile	Analog	Functional	N/A	Shared Imaging, limited helical and reformatting capabilities
9	GE Signa Excite 1.5 Tesla	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging

Imaging Department Workflow Current State - CSATF



Pelican Bay State Prison (PBSP)



Operations

- ◆ 1 technologists (1 vacant position, no back-up), .5 random OT support
- ◆ Hours of operation: 7:30 a.m. to 3:30 p.m.
- ◆ No CT or MRI (use external vendor – Sutter Coast, very expensive)
- ◆ No radiologist, orthopedic physician reading orthopedic films
- ◆ Ultrasound registry coverage is sporadic, uses PBSP owned equipment

Technology

- ◆ Have LAN (used for MPIMS)
- ◆ CR deployed
- ◆ New Apollo RF unit deployed (no fluoroscopy done at site)
- ◆ US unit/s deployed
- ◆ MPIMS used for tracking

- ◆ Film duplicator in use
- ◆ Dental technology evolving to digital (stand alone configuration only)

Professional

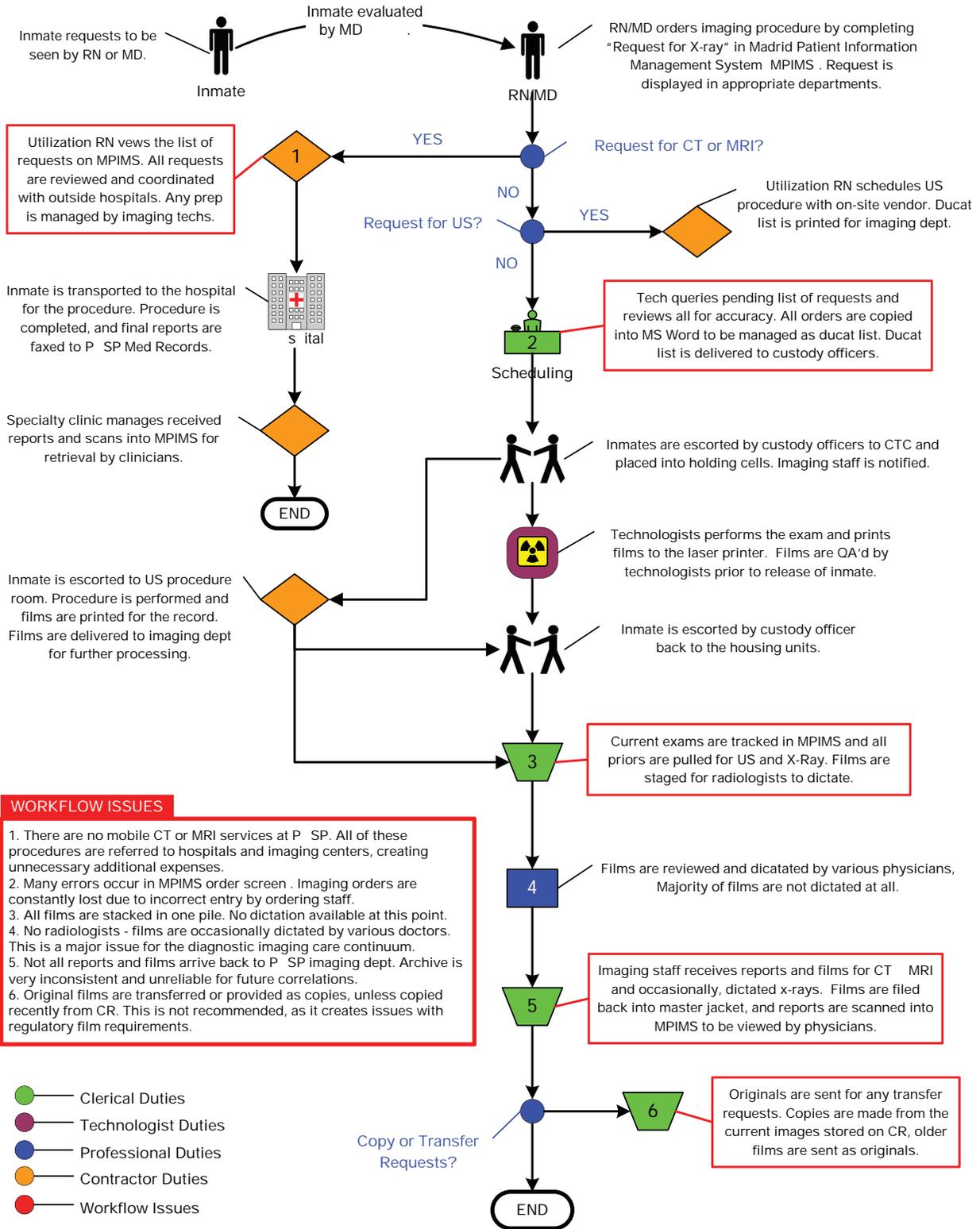
- ◆ No Feb images had been interpreted because of lack of professional contract
- ◆ Radiologist wanted to contract at flat rate per exam (upwards of 3-5 times Medicare).
- ◆ Orthopedic physician performing interpretations in the interim
- ◆ MRI and CT is performed at Sutter Coast Hospital
- ◆ Open bore – MRI is performed at Outpatient Center in Brookings Oregon.
- ◆ Emergent Care Hospital – Sutter Coast/St. Joseph
- ◆ Sutter Coast contracts at 80% usual and customary
- ◆ Medford Open bore – MRI in Brookings contracts at 125% of Medicare
- ◆ Radiologist requesting government subsidy

Device Matrix

PBSP – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/Digital	Condition	DICOM	Comments
1	Apollo G100 RF-A	RF Unit	XR Room	Analog	Functional	N/A	Table & anchors unstable, no lead shield, no collimator display, remote control only at the panel
2	Del Medical Overhead Tube	XR Unit	XR Room	Analog	Functional	N/A	72” upright bucky limitations with table in the way
3	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS box attached
4	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	No Pan or Zoom, no barcoder attached
5	Fuji DryPix 5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Prints 3 sizes of film (8x10, 10x12, 14x17)
6	Kodak RP X-OMAT	Film Processor	Dark Room	Analog	Functional	N/A	Chemicals intact
7	BluRay RXR Mark V	Film Duplicator	Dark Room	Analog	Functional	N/A	Used for copies
8	Logic 5 Expert	US Unit	PT Room	Digital	Functional	Native DICOM	Doppler capable, CR-ROM attached, 2 transducers
9	SonoAce 5000	US Unit	Dark Room	Analog	Functional	N/A	Currently in use, 2 transducers, analog printer attached (iie400), no network jack, DVI capable outlet

Imaging Department Workflow

Current State - PBSP



High Desert State Prison (HDSP)



Operations

- ◆ 1 technologist (no back-up), no clerical support
- ◆ Hours of operation: 8:00 a.m. to 4:00 p.m.
- ◆ No CT or US services (external vendor used for all)
- ◆ Professional service sketchy – sometimes films are sent to Redding (120 miles) for radiologist interpretation
- ◆ Film files are located in various places, not consolidated or in order

Technology

- ◆ No LAN
- ◆ CR deployed
- ◆ IMSATS in use
- ◆ Film duplicator available but no film processor
- ◆ New Apollo RF unit (no fluoroscopy studies done)
- ◆ Dental technology evolving to digital (stand alone configuration only)

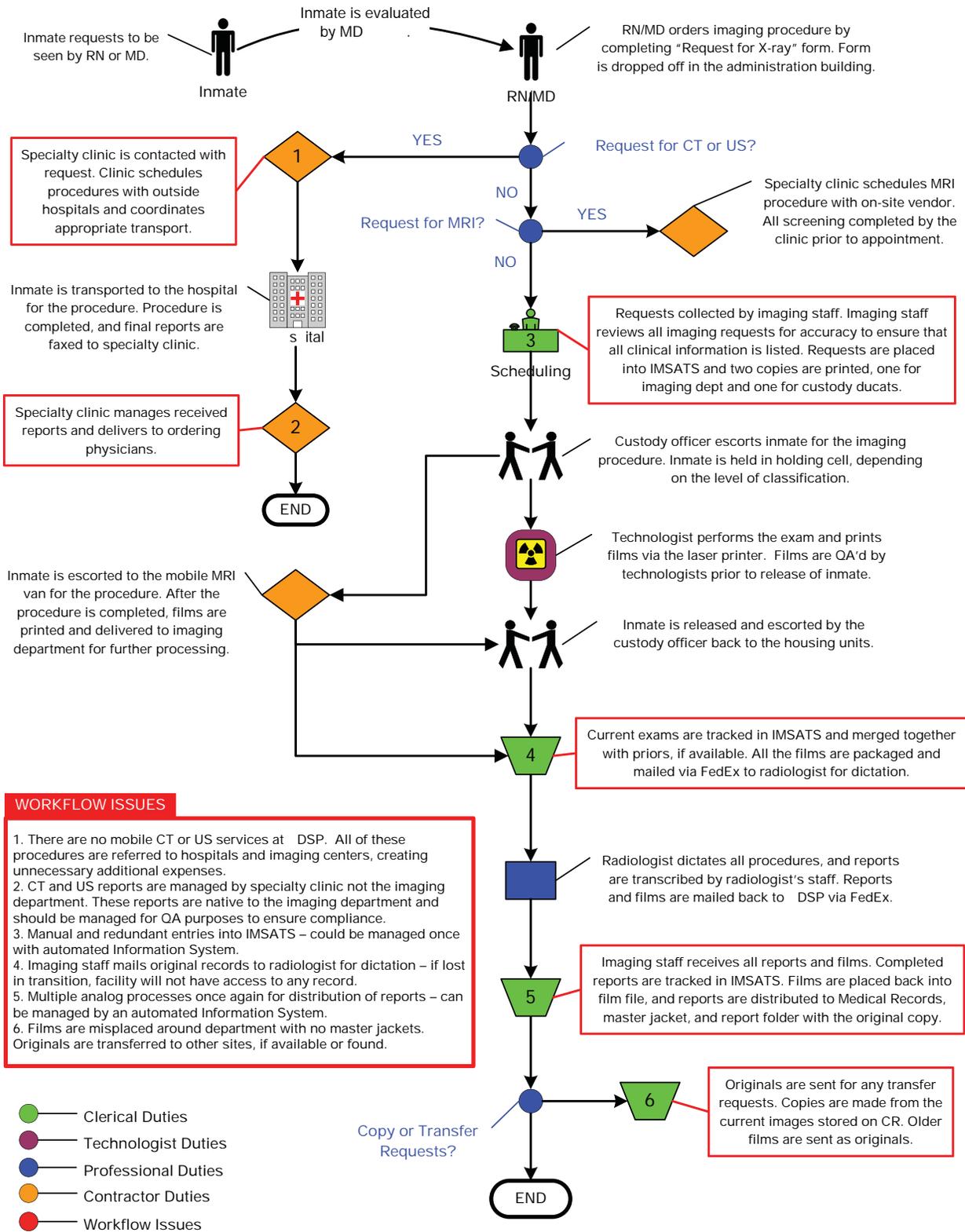
Professional

- ◆ Mobile MRI-Alliance (Once a month). Pad with power available
- ◆ Lassen Radiology
- ◆ Radiologist – Dr. Adams
- ◆ MD Imaging – Reno
- ◆ Banner (10 miles) – Shasta Regional (120 miles) – St. Mary – Renown – Northern Valley Hospitals (100 miles) used for services

Device Matrix

HDSP – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/Digital	Condition	DICOM	Comments
1	Apollo G100 RF-A	RF Unit	XR Room	Analog	Functional	N/A	Table & anchors unstable, no lead shield, no collimator display, remote control only at the panel
2	Del Medical Overhead Tube	XR Unit	XR Room	Analog	Functional	N/A	40” & 72” distance ok, upright & table bucky ok, auto collimator ok.
3	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS box attached
4	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	No Pan or Zoom, no barcoder attached
5	Fuji DryPix 5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Prints 3 sizes of film (8x10, 10x12, 14x17)
6	Konica SRX-301	Film Processor	Dark Room	Analog	Down	N/A	No chemicals and motor is down
7	XMA X-Ray Marketing Assoc	Film Duplicator	Dark Room	Analog	Functional	N/A	Cannot be utilized with film processor down.
8	GE LX Hi-Speed 9.1, 1.5T	MRI Unit	Mobile	Digital	Functional	Native DICOM	Alliance Imaging vendor

Imaging Department Workflow Current State - HDSP



Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.

California Correctional Center (CCC)



Operations

- ◆ 3 technologists, no dedicated clerical support
- ◆ Hours of operation: 6 a.m. to 8 p.m. M-F, Sat. 7:30 a.m. to 5:30 p.m.
- ◆ This is the only site that provides Saturday coverage
- ◆ No on-site US or CT services (use external vendors)

Technology

- ◆ No LAN
- ◆ CR units deployed and in use
- ◆ No FAX
- ◆ No IMSATS
- ◆ No Internet
- ◆ Film duplicators in use

- ◆ Microsoft™ Access used to track patient procedure scheduling
- ◆ Dental technology evolving to digital (stand alone configuration only)

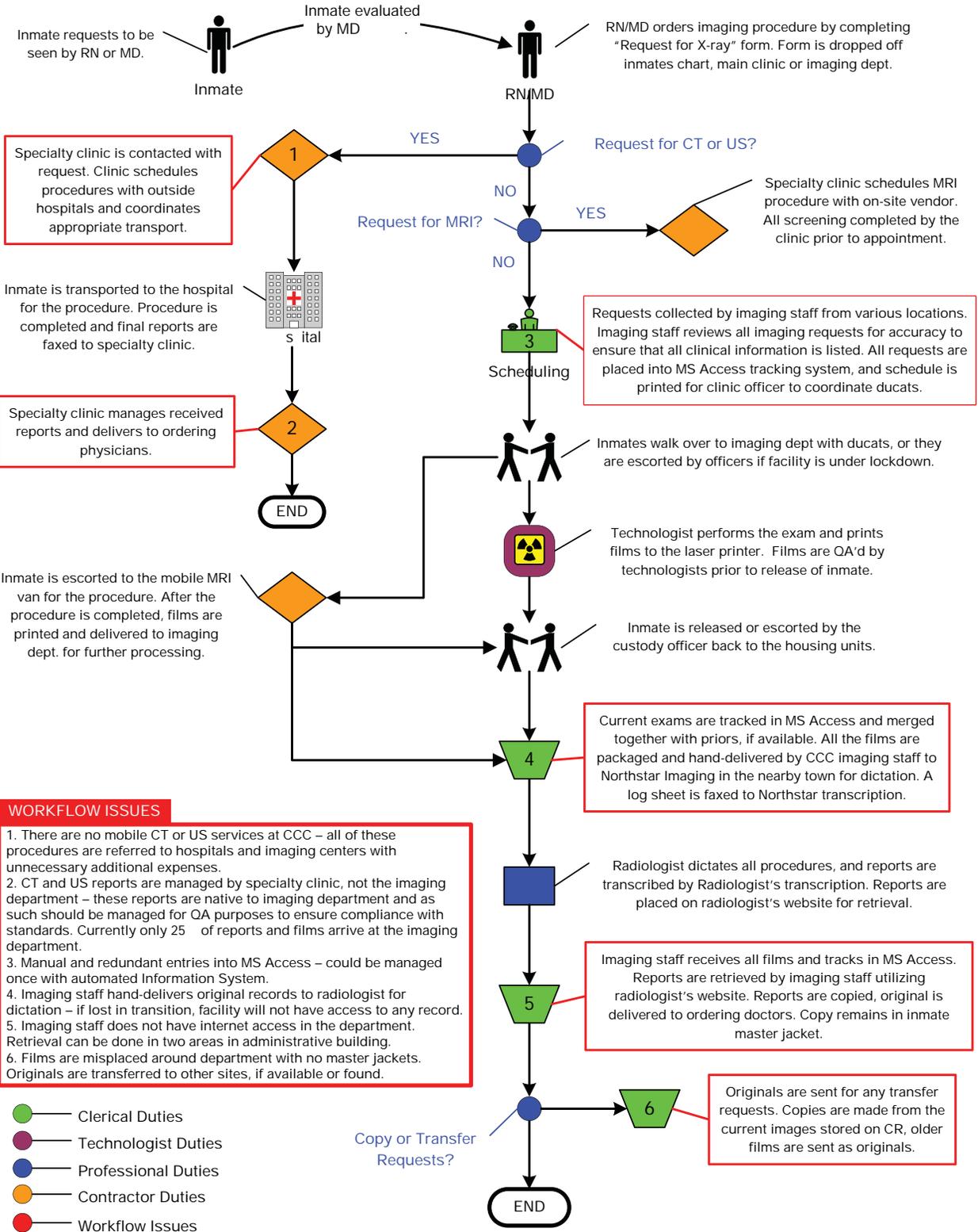
Professional

- ◆ Mobile MRI (Alliance 3x month)
- ◆ Lassen Radiology
- ◆ Banner (10 miles) – Shasta Regional (120 miles) – St. Mary – Renown – Northern Valley Hospitals (100 miles) used for services

Device Matrix

CCC – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Del Medical IN Series	XR Unit	X-ray Room	Analog	Functional	N/A	No fluoro or tomo, AEC ok, Eureka tube ok, upright & table bucky ok
2	Fuji CR Carbon XL	CR Reader	Main Dept	Digital	Functional	N/A	UPS Box available
3	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	Pan and Zoom not available
4	Fuji DryPix5000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Prints 3 sizes of film (8x10, 10x12, 14x17)
5	Blu Ray RXR Mark V	Film Duplicator	Dark Room	Analog	Functional	N/A	Functions with available dark room film processor
6	Kodak RP X-OMAT	Film Processor	Dark Room	Analog	Functional	N/A	Currently not in use with CR laser printer available
7	GE LX Hi-Speed 9.1, 1.5T	MRI Unit	Mobile	Digital	Functional	Native DICOM	Alliance Imaging 3x a month

Imaging Department Workflow Current State - CCC



Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.

California Institution for Women (CIW)



Operations

- ◆ 2 technologists and 1 (on-loan) MA
- ◆ Hours of operation: 6:00 a.m. to 2:00 p.m.
- ◆ Mobile US 1 to 2 times per week
- ◆ New Toshiba R/F room (excellent equipment; however, no fluoro exams being done)
- ◆ Certified mammography program on site (good program)
- ◆ No CT or MRI services (all services performed by external vendors)

Technology

- ◆ No LAN
- ◆ CR, (CR purchased separately from other sites, no annotation “free text”)
- ◆ Fuji Dry Pix 4000 (different from other sites, which have Dry Pix 5000)
- ◆ Use IMSATS and log books
- ◆ Film duplicator available on-site
- ◆ Dental technology evolving to digital (stand alone configuration only)

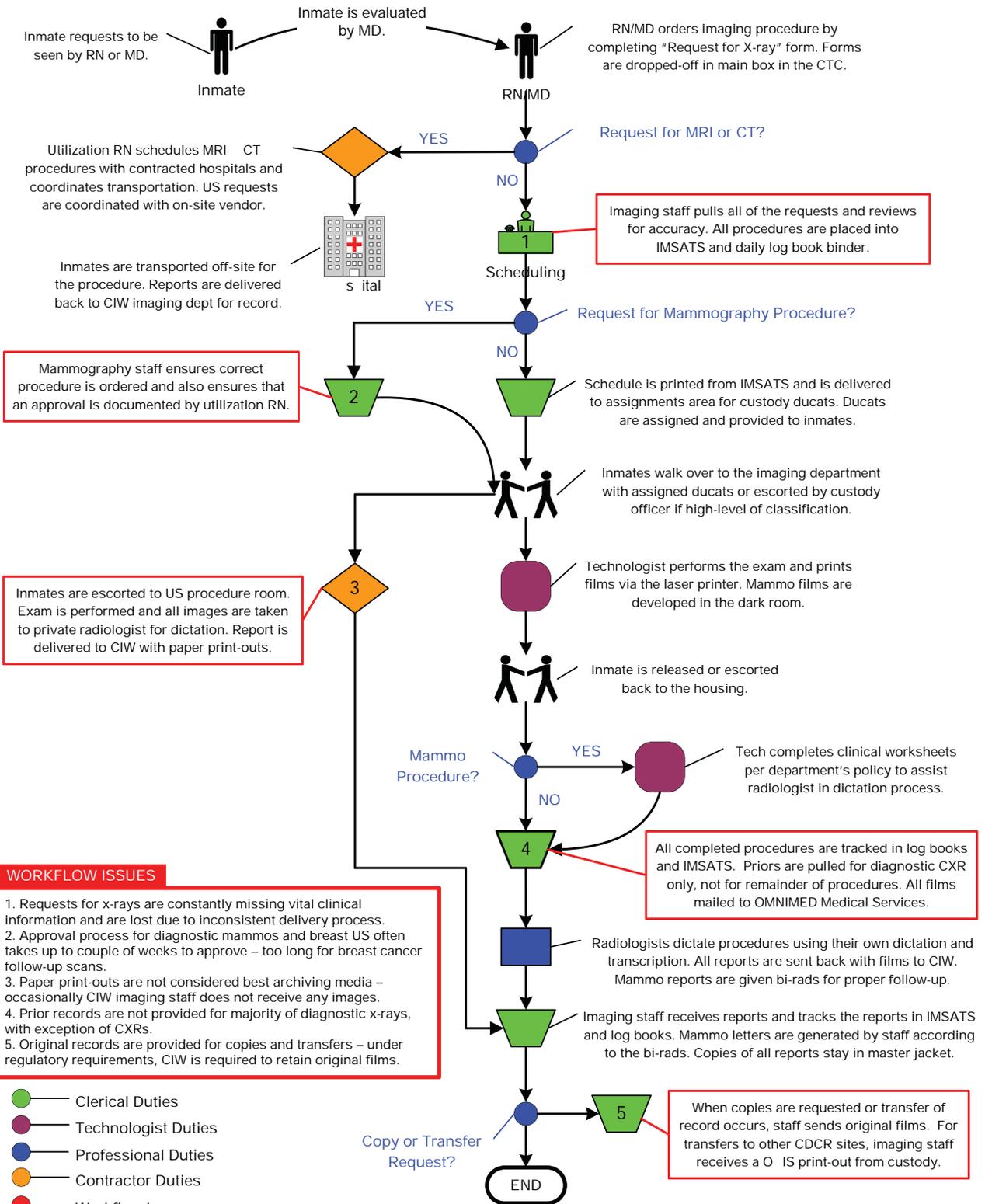
Professional

- ◆ Outpatient referrals to Palm Imaging
- ◆ No on-site radiologist contract, facility sends out all barium studies
- ◆ AMR is the County Designate for ambulance services.
- ◆ Hospitals utilized – Chino Valley; San Antonio (Upland); Arrowhead; Corona Regional; Dr.’s Hospital; RCRMC
- ◆ Palm Imaging (San Bernardino) reads CT
- ◆ Omnimed (Costa Mesa Radiologists)
- ◆ Riverside Radiology (conflict of interest?)

Device Matrix

CIW – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Toshiba KXO-80G	XR/RF Unit	X-ray Room	Analog	Functional	N/A	Spot film fluoro, upright/table bucky ok, Varian med system tube, auto de- tent ok, structurally intact, no tomos
2	GE Senographe 800T	Mammo Unit	Mammo Dept	Analog	Functional	N/A	Mfg in 2003, certified, extra available bucky, digital film flasher native to the unit.
3	Kodak Miniloader 2000P	Daylight Film Processor	Mammo Dept	Analog	Functional	N/A	Processor located in the same room as the MG unit, possible fume leak from the exhaust hose.
4	Fuji CR FCR-XG1	CR Reader	Old Dark Room	Digital	Functional	N/A	UPS Box attached (Power Var 4.0),
5	Fuji CR IIP	QA Workstation	Main Dept	Digital	Functional	Native DICOM	Pan and Zoom not available, no bar-coder, no MWL, no ‘free text’ entry available
6	Fuji DryPix4000	Laser Printer	Main Dept	Digital	Functional	Native DICOM	Prints only two sizes of films (10x12, 14x17)
7	Blu Ray RXR Mark V	Film Duplicator	Dark Room	Analog	Down	N/A	Not in use – processor down
8	Hitachi EUB-405 Plus	US Unit	OPHU OB	Analog	Functional	N/A	No network jack, small paper printer attached, two probes
9	GE Logiq BookXP	US Unit	Mobile	Digital	Functional	Wireless DICOM	Dr. Vadim Chudnovsky vendor, unit has cardiac and Doppler functions

Imaging Department Workflow Current State - CIW



California Institution for Men (CIM)



Operations

- ◆ 3 technologists and 1 temporary OT
- ◆ Hours of operation: 8:00 a.m. to 4:00 p.m. with after hours on-call coverage
- ◆ 2 x-ray clinics (reception area and main department)
- ◆ Mobile US (paper print-outs not always delivered to CDCR)
- ◆ No CT services (all contracted to external vendors)
- ◆ East campus geographically removed from central with no imaging services

Technology

- ◆ No LAN
- ◆ CR units are deployed and in use
- ◆ No IMSATS (use manual logbooks)
- ◆ Portable X-Ray unit available
- ◆ Film duplicator in use
- ◆ FAX machine in use
- ◆ Dental technology evolving to digital (stand alone configuration only)

Professional

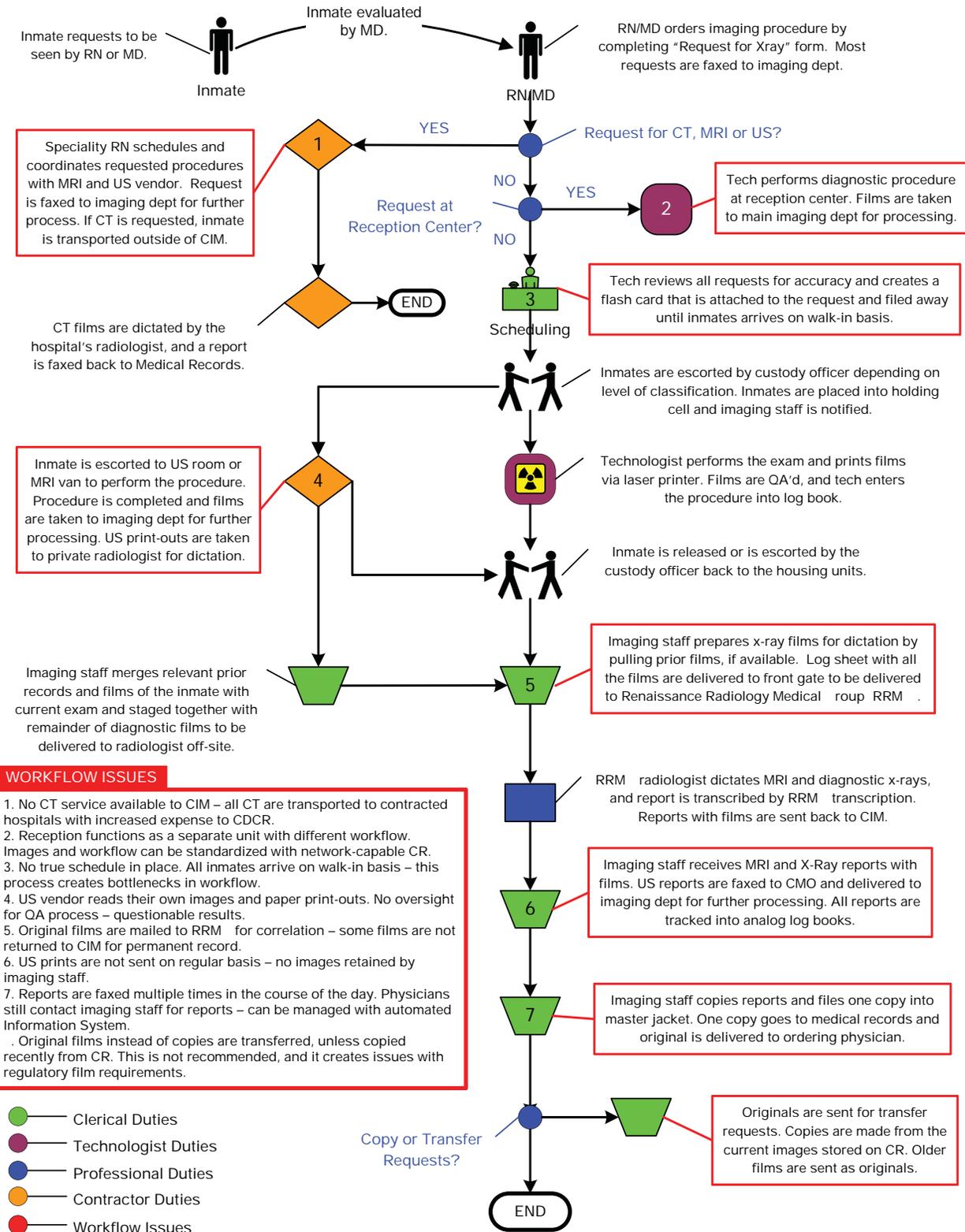
- ◆ Mobile MRI 1 day per week
- ◆ No mobile MRI or CT pad available (No power or network or telecom)
- ◆ Outpatient referrals to Palm Imaging
- ◆ No on-site radiologist contract, facility sends out all barium studies
- ◆ AMR is the County Designate for ambulance services.
- ◆ Hospitals utilized – Chino Valley; San Antonio (Upland); Arrowhead; Corona Regional; Dr.'s Hospital; RCRMC
- ◆ Palm Imaging (San Bernardino) reads CT
- ◆ Omnimed (Costa Mesa Radiologists)
- ◆ Riverside Radiology (conflict of interest?)

Device Matrix

CIM – Diagnostic Imaging Equipment							
#	Vendor Name	Description	Location	Analog/ Digital	Condition	DICOM	Comments
1	Fischer Imaging 425HF	XR Unit	RC Main Dept	Analog	Functional	N/A	Manual collimation, upright & table bucky ok, AEC ok, no tomos
2	Fuji CR Carbon XL	CR Reader	RC Main Dept	Digital	Not Installed	N/A	Product in shipping box during assessment, UPS Box attached, no barcoder
3	Fuji CR IIP	QA Workstation	RC Main Dept	Digital	Not Installed	Native DICOM	Product in shipping box during assessment
4	Fuji DryPix 5000	Laser Printer	RC Main Dept	Digital	Not Installed	Native DICOM	Product in shipping box during assessment
5	Konica SRX-101A	Film Processor	RC Dark Room	Analog	Functional	N/A	Currently in use for until CR implementation
6	Del Medical IN Series	XR Unit	CTC Main Dept	Analog	Functional	N/A	Eureka tube, upright & table bucky ok, AEC ok, auto collimator ok, structurally intact
7	Fuji CR Carbon XL	CR Reader	CTC Main Dept	Digital	Functional	N/A	UPS box attached
8	Fuji CR IIP	QA Workstation	CTC Main Dept	Digital	Functional	Native DICOM	No pan or zoom, no barcoder
8	Fuji DryPix 5000	Laser Printer	CTC Main Dept	Digital	Functional	Native DICOM	Prints 3 sizes of film (8x10, 10x12, 14x17)
10	Kodak RP X-OMAT	Film Processor	CTC Dark Room	Analog	Functional	N/A	Currently not in use with CR available
11	Techno-Aide 195D	Film Duplicator	CTC Dark Room	Analog	Functional	N/A	Used for copies
12	Picker Explorer II	XR Mobile Unit	CTC X-ray Hall	Analog	Down	N/A	Battery cannot hold charge, parts hard to find
13	GE Signa Excite 1.5T	MRI Unit	Mobile	Digital	Functional	Native DICOM	Shared Imaging vendor, limited coils
14	Bisound Megas ES	US Unit	Mobile	Digital	Functional	Native DICOM	Whitefield Radiology - PDS, Vascular equipped, paper printer

Imaging Department Workflow

Current State - CIM



Confidential and Proprietary to McKenzie Stephenson, Inc. This document contains proprietary information intended for CPRC and their related business partners. The entire document or any part may not be photocopied, reproduced in any form, electronic or otherwise, or the information shared or distributed outside of CPRC without the express written consent and permission from an officer of MSI.