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Revision History:

March 24, 2010 – Initial version of manual.

Controlled versions of Department of Forensic Biology Documents only exist electronically on the Forensic Biology network. All printed versions are non-controlled copies.

July 28, 2010 – Section 1 revised to add/update terms and abbreviations; Section 2 revised to reflect policy change on requesting exemplars (2.1); Section 3 revised to reflect the correct form name ("DNA Profile Evaluation Form") and to update profile eligibility documentation (3.1.1); Section 4 revised to reflect the correct form name ("DNA Profile Evaluation Form") and to add 4.2.9.a; Section 5 revised to reflect policy change to report all "suspect matches" with DNA Hits.

1.0	CODIS TERMS AND ABBREVIA	TIONS
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9 NYCRR Part 6192	The policy which provides for the the DNA Identification Index in	
ASCII	American Standard Code for Information Interchange. Text- only, with no formatting such as tabs, bold or underlining.	
Accreditation	Formal recognition that a DNA laboratory is competent and meets or exceeds a list of standards, including the FBI Director's Quality Assurance Standards, to perform specific tests by a nonprofit professional association of performs actively involved in forensic science that is nationally recognized within the forensic science community.	
Administrative removal	The deletion of a DNA profile at the local, state and/or national index levels for reasons other than expungement.	
Allele	In classical genetics, one of the alternate forms of the gene at a particular locus. In DNA analysis, the term "alleles" is commonly extended to include DNA fragments of variable length and/or sequence which may have no known transcriptional product but are detected in a polymorphic system.	
Autosearcher	ACCODIS program that automatically searches all DNA profiles in a user specified index against all profiles in one or more other user specified indexes.	
Biological Father/Mother	The CODIS specimen category for known reference samples provide father/mother of a reported missi specimen category are considered the CODIS index known as "Rela Index." These DNA profiles are whom the samples were submitted	ed voluntarily by the biological ng person. Profiles in this d evidentiary and are stored in atives of Missing Persons removed once the individual for
Biological Sibling	whom the samples were submitted has been identified. The CODIS specimen category for DNA profiles generated from known reference samples provided voluntarily by the biological sibling of a reported missing person. Profiles in this specimen category are considered evidentiary and are stored in the CODIS index known as "Relatives of Missing Persons Index". This DNA profile is removed once the individual for whom this sample was submitted has been identified.	

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Cambridge Reference Sequence (CRS)	The Cambridge Reference Sequen sequence used in mitochondrial D mitochondrial DNA types are com profiles are reported as differences sequence.	NA typing to which other pared. Mitochondrial DNA
Candidate Match	A possible match between two or more DNA profiles discovered by CODIS software. A qualified DNA analyst from each affected laboratory must verify a candidate match. Candidate matches must complete a confirmation process before being reported as a match or hit.	
Candidate Profile	A DNA profile matching the part of profile).	DNA profile (see target DNA
Case Disposition	The final outcome (confirmed conviction, offender hit, forensic hit, etc.) of a criminal case aided by CODIS.	
Case Report	A report generated by a forensic laboratory documenting the results of the analyses of the crime scene evidence.	
Casework Laboratory	A forensic DNA laboratory responsible for DNA profiles dependent from crime scene evidence.	
CJIS-WAN	The FBI's Criminal Justice Information Services Wide Area Network that provides communications network for the United States law enforcement community. Originally designed to support the Integrated Automated Fingerprint Identification System (IAFIS), the FBI is expanding the scope of the CJIS- WAN to include all federal, state and local crime laboratories participating in the National DNA Index System.	
CMF	Common Message Format, an ASCII text file format necessary for importing data into CODIS.	
CODIS	The Combined DNA Index System. CODIS is the entire system of DNA indexes (Convicted Offender index, Forensic index, Population index, Missing Persons index, etc.) including the software. CODIS is maintained on Local, State and National levels.	

1.0	CODIS TERMS AND ABBREVIA	TIONS
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CODIS Administrator	A member of the CODIS staff wit CODIS as defined by the CODIS	-
CODIS Core Loci	The13 autosomal DNA loci that a CODIS for a particular DNA testi core loci are CSF1PO, D13S317, D3S1358, D5S818, D7S820, D8S vWA. D19S433, D2S1338, Penta but not searched, as they are NOT	ng method. Currently the STR D16S539, D18S51, D21S11, 1179, FGA, TH01, TPOX, and a E and Penta D are accepted
CODIS Information Technology (IT) User	A government employee of a COI access to the CODIS system for a telecommunications maintenance authorized to add, modify or delet	onputer hardware/software and purposes but who is not
CODIS Custodian/Supervisor	A member of the CODIS staff res CODIS system and all its function Custodian"). This person fulfills Administrator as defined by the F	is (also called "LDIS the role of Casework CODIS
CODIS User	A government employee who: (1) system and is authorized to read, a records in CODIS; or (2) is a qual for producing DNA profiles stored	add, modify or delete DNA ified DNA analyst responsible
Contract Laboratory	A laboratory, usually in the privat analyses under contract to a foren	-
Control Certification Form	This document certifies that the pe and the negative controls satisfy the NIST. One document must be con- to the SDIS Custodian before DN SDIS.	he requirements established by mpleted and submitted annually
Cold Hit	Two DNA profiles matching with profiles are related.	no prior indication that the

1.0 CODIS TERMS AND ABBREVIATIONS		
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Convicted Offender	The CODIS specimen category for a DNA profile generated from any person who has been convicted of a crime in federal, state, and/or local courts where the applicable law permits establishment of a DNA record for this person. In New York State, this is a person convicted of one of the crimes listed in Executive Law, Section 995(7). Profiles in this specimen category are stored in the CODIS index known as the "Convicted Offender Index" (or Offender Index). As of June 2006, all convicted felons in New York must give a cample to the database.	
Convicted Offender Index	The CODIS index containing DN convicted offenders stored in SD	
Convicted Offender Lab	A forensic DNA laboratory respo developed from Convicted Offend State, this is the New York State I Center in Albany.	der samples. In New York
Convicted Offender Sample	A biological sample containing D designated convicted offender for	
Convicted Offender Profile	ADNA profile generated from a These DNA profiles are put into the "Convicted Offender" and are stone the "Convicted Offender Index." index of DNA identification recommatches against the DNA profiles evidence.	he CODIS specimen category red in CODIS index known as These profiles establish an rds that are searched for
Conviction Match	The DNA profile generated from DNA profile from a convicted off	

The DNA profile generated from crime scene evidence matches a DNA profile from a convicted offender, but the offender has already been convicted of the crime for which that evidence was collected.

Criminal Justice Agency An agency or institution of the federal, state or local government, other than the office of the public defender, which performs as part of its principal function activities relating to the apprehension, investigation, prosecution, adjudication, incarceration, supervision and/or rehabilitation of criminal offenders.

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Criminal History Record	Documents generated by DCJS that conviction, sentence, location and convicted offender.	-
DAO	Stands for District Attorney's Office. There is one in each of the five boroughs of New York City.	
Databank Coordinator	An employee or designee of the Division of Criminal Justice Services responsible for administrative requirements related to the New York State DNA Databank.	
DCJS	Stands for Division of Criminal Juliaison between local New York 19 State Police Laboratory. DSLS ma for collection of offender samples is requests to expedite completes and de legal requests for convicted offend	boratories and the New York mages the program responsible in New York State, handles atabase searches and handles
DCJS Match Letter	A letter generated by DCJS after a DNA profile and a New York State profile has been confirmed. The pu- the laboratory of a confirmed matc information, the identity of the offe- location.	e Police convicted offender urpose of this letter is to notify h, provide case and agency ender, and current offender
Deduced Missing Poson	The DCJS Match Letter is provided The CODIS specimen category for examining reference samples (for e brush) of a reported missing person category are considered evidentiary Missing Person Index. This index i against the Relatives of Missing Per Unidentified Human (Remains) Index	DNA profiles generated from example, toothbrush, hair n. Profiles in this specimen y and are stored in the CODIS is searched and compared ersons Index and the
DNA Analysis Backlog Elimination Act	Authorized the collection of DNA convicted of specified Federal Felo Columbia convicted offenders, and	ony offenses, certain District of

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DNA Databank	The New York State Identification Executive Law Section 995) come Convicted Offender index, the For Persons index.	prised of DNA profiles in the
DNA Identification Act	The Federal DNA Identification <i>. et seq.</i>	Act of 1994, 42 U.S.C. § 4131
DNA Profile	The combination of DNA alleles individual at a specified set of ge DNA of that individual to be dist another individual.	netic loan which permits the
DNA Record	Includes the DNA profile a well NDIS. This includes: menames with the DNA profile analyses, the from which a given DNA analyst applicable, the dute after which a accepted.	of DNA personnel associated ne date after which DNA records at can be accepted, and, when
Elimination Sample	A biological sample from a know husband or consensual partner), o opticum, which is analyzed for p portions of a forensic DNA profit perpetrator. This DNA profile for be stored at the state and/or local upload to NDIS. Such samples a	other than the alleged perpetrator purposes of identifying those le attributable to the alleged or this specimen category may levels but is not eligible for
Equivalent Allele Parameter	For PCR/STR, this parameter is a target allele matches a candidate defined to be the same as another allele values are reciprocal. For $19.x = 10$ with respect to searches administrator. During review of must check whether the values ar	allele. It is a PCR value that is PCR allele value. Equivalent instance, at THO1, $9.2 = 9.3 =$ Equivalency can be set by the a candidate match, the reviewer
Executive Law Article 49-B Section 995	Provisions of New York State law on Forensic Science and the DNA	-

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Expert System	The software program or set of soft the data generated from DNA analy accordance with the laboratory-def and accurately identifies the data the such rules.	ysis instrument/platform in ined quality assurance rules
Expungement	The deletion of a DNA profile at the state and/or national index levels in response to the following: (1) a court order that has overturned a convicted offender's conviction for a qualifying offense; (2) a court order establishing that charges were dismissed or resulted in acquittal, or ho charges were filed within the applicable time period.	
FBI	The Federal Bureau of Investigation	
FB-LDAS or LINKAGE	Forensic Biology Local DNA Analyses System (LINKAGE) - the Paradox DNA costabase used to search preliminary DNA results for case links. LINKAGE contains both casework non- mixture profiles and suspect profiles.	
Forensic DNA Laboratory	Any forensic laboratory operated by the state or unit of local government that performs forensic DNA testing on crime scene evidence or materials derived from the human body for use as avidence in a criminal proceeding or for purposes of identification (Executive Law section 995(2)).	
Forensic DNA Profile	A DNA profile generated from the testing of crime scene evidence. These profiles are from persons whose identities are not known with certainty and who left DNA at the scene of a crime or whose DNA was carried away from the scene of a crime. These profiles are put in the CODIS specimen category "Forensic Unknown". Profiles in this category are stored in the CODIS index known as "Forensic STR Index".	
Forensic DNA Testing	Any test that employs techniques to the human body for purpose of pro issues of identification (Executive 1	viding information to resolve
Forensic Hit (FH)	CODIS case disposition when two linked; also called a case-to-case hit	

1.0	CODIS TERMS AND ABBREVIA	TIONS
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Forensic Index	The CODIS file (or index) that co profiles from the analysis of evid contained in this index originate	ence. The DNA records
Forensic Match Letter	A letter from a laboratory documenting a confirmed Forensic Match. This letter provides information regarding the investigating agency and offender information (for solved cases).	
Forensic Obligate Index	An index that contains the specimen category Required Alleles, and contains six to nine loci, searched at moderate stringency. Profiles in this index are only searched at SDIS, they have too few alleles to be uploaded to NDIS	
Forensic STR Index	The CODIS index that contains for	orensic DNA records.
Forensic Sample	A biological sample from a crime scene or crime scene evidence. DNA testing of these samples generates forensic DNA profiles.	
Forensic Unknown	The CODIS specimen category for forensic DNA profiles generated from the testing of crime scene evidence. Profiles in this specimen category are stored in the CODIS index known as "Forensic STR Index."	
High Stringency	The number of alleles and the contract the same between two DNA profi	
High Stringency Match	All alleles at all loci match at high stringency. A confirmed match between two or more DNA profiles. Hits can occur at or between any level (local, state and national) in the CODIS hierarchy. Hits can be a Forensic Hit, an Offender Hit, an Arrestee Hit (some states), or a Suspect Hit (Forensic Biology only).	
Identifying Information	Information on a Convicted Offer and ID numbers, e.g. name, NYS	-
Index Offense	An offense defined in Executive which determines eligibility for in Databank.	

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Indictment	A formal written accusation origina issued by a grand jury against a par	• •
Interpreting Analyst	Forensic Biology analyst responsible for interpreting the DNA results in a case.	
Investigating Agency	See Submitting Agency.	
Investigations Aided (IA)	A criminal investigation equates to a case, which equates to a submission to a laboratory. An investigation aided for a casework laboratory is the number of cases submitted to the lab that were assisted by CODIS. Investigations aided = Investigations assisted = Cases aided = Cases assisted.	
Juvenile	The known sample from a juvenile (as that term is defined by the relevant jurisdiction) who is required by state law to provide a DNA sample for analysis and entry into a state DNA database. The DNA profile for this specimen category is stored in a Convicted Offender Index.	
Keyboard Search	A manual search of CODIS initiated by a CODIS user. In SDIS or NDIS the search is initiated by the SDIS or NDIS Custodian. In 2015 the search is done by a member of the CODIS group.	
Keyboard Search Request	A request from an agency for a keyboard search of the DNA Databank at LDIS, SDIS or NDIS. This letter includes all of the information relating to the DNA profile, the requesting agency and certification of the control values.	
Keyboard Search Result Letter	A letter from the Databank Coordinator documenting the results (match/no match) of the Keyboard Search.	
LDAS	The Local DNA Analysis System, a Paradox database which contains the local DNA profiles. The LDAS for Forensic Biology contains casework non-mixture (or deduced) forensic DNA profiles generated from casework and DNA profiles from suspects developed during the course of criminal investigations. This database is commonly called "LINKAGE."	

1.0 CODIS TERMS AND ABBREVIATIONS		
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LDIS	The Local DNA Index System contains the DNA records selected from LDAS for searching for DNA matches and (for those eligible) for inserting into higher level (SDIS and NDIS) CODIS indexes.	
	LDIS also contains DNA records entry into LINKAGE, such as no profiles.	-
LAB-TYPES	A Paradox database which contain Department of Forensic Biology profiles, and other DNA profiles as janitorial staff).	stati, known contaminant DNA
LINKAGE	See LDAS.	
LINKAGE User	A laboratory employee who: (1) has login access to the LDAS/LINK/QE system and is authorized to read, add, modify and/or delete DNA records in it; or (2) is a qualified DNA analyst responsible for producing DNA profiles stored in LDAS/KINKAGE.	
Low Copy Number Specimen Category	Acceleration of the second sec	State SDIS for the purpose of generated using low copy
Low Copy Number Profile	Forensic Unknown composite pro using extra cycles during amplifi- stored in the Low Copy Number Forensic Index.	cation. These samples are
Low Stringency	For a given locus, an allelic value is the same as an allelic value for	-
Low Stringency Match	At least one locus matches at low	v stringency.

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Marked/Unmarked Profile	Marked profiles in Specimen Mar upload to SDIS. Unmarked profil for upload to SDIS. Pattern and s	es are those profiles deselected
Match Confirmation	The process of determining if a potential candidate match generated by CODIS or other database software is a true match and should be reported to the investigating agency.	
Match Manager	Match Manager (MatchMan) is th for the managing and sorting of m use of CODIS. Matches are added	atches discovered through the discovered through the
Match Report	Searcher and Autosearcher progra Electronic report generated by C candidate match is made by COD	DIS when a potential
Match Stringency	The actual locus-level stringency match. The match stringency for t profiles is determined by the lowe loci of the match.	he match between two DNA
Maternal Relative	The known reference sample volu biological relative who is not a me repared missing person. The DN category are considered evidentia Relatives of Missing Persons Inde	other, child or sibling of a A profiles for this specimen ry and are stored in the
Mis-match (search)	A parameter within Searcher and one locus of a profile being search stringency level being searched, a match. For instance, during a mo locus with entered alleles, in the t match at moderate or high stringe low stringency match or not a mat Searches allowing one mis-match SDIS; the purpose is to identify of spite of a possible typographical of locus of any given profile. If this then the match must occur with no stringency in order to be returned	hed to match (or not) below the nd still return the result as a derate search, if all but one wo profiles being compared, ncy, one locus which is either a tch at all, will be displayed. are performed at LDIS and ffender and forensic matches in or interpretational error at one s parameter is set to "zero", o mis-matches at the selected

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Missing Person	The known reference sample of an a voluntarily provided by a relative o missing person report. The source as originating from the missing persons Index. These same videntiary.	r the person who filed the of the DNA has been verified son and is stored in the
Mitochondrial DNA	A small circular piece of DNA found outside the nucleus in most cells and generally involved in the production of proteins responsible for energy production in the body. It is inherited maternally.	
Mitotype	A mitochondrial DNA profile cont sequence differences from a sundar typically the Cambridge Reference Cambridge Reference Sequence (rC depending upon the length of the se	rd reference sequence; Sequence (CRS) or revised CRS). The mitotype will vary
Moderate Stringency	For a given locul, a minimum numl corresponding allelic values must b profiles. The minimum number is d the revest alleles. This is the standa	e the same between two letermined by the profile with
Moderate Stringency Match	A match between two DNA profiles stringency match for all the loci of moderate or high stringency. No loc	the match was either at
NDIS	The National DNA Index System. In CODIS – the national and highest le DNA records contributed from part local laboratories. NDIS is administic accordance with the provisions of the 1994, as amended.	evel index containing the icipating federal, state and tered by the FBI in
	NDIS receives DNA records from e supports the searching functions of are comprised of forensic DNA pro DNA profiles, arrestee DNA profile missing persons and relatives, and a contributed to a population database	CODIS. These DNA records files, convicted offender es, DNA profiles from anonymous DNA profiles

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NDIS Standards for Acceptance of DNA Data	The document prepared by the FBI specifying the requirements for DNA data to be accepted for searching and storage at the National level. These must be reviewed by CODIS analysts annually, and currently consist of a web-based training followed by a quiz.	
Negative Amplification Blank	A negative control sample containing amplification reagents without added DNA, used to detect DNA contamination of the amplification reagents during testing.	
Negative Control	A specimen included in a batch or using DNA testing methods, show	
Negative Reagent Blank	A negative control sample contain added DNA which is used to dete reagent during testing.	ng all testing reagents without
NIST	Stands for the National Institute of Standards and Technology.	
No Match	CODIS case disposition for a moderate stringency candidate match between two cases that are not a true match.	
No Suspect Case	 case with no suspect lister checking all paperwork asso submission and case contact A case in which DNA testin listed suspect(s) have been e 	beciated with the evidence ts. Ing has been conducted and the
NYPD	Stands for the New York (City) P	Police Department.
NYS Administrator	The New York State Administrator is responsible for the oversight and approval of CODIS functions at the state level. This includes supervising the SDIS custodian.	
NYS DNA Databank	The New York State Identificatio Executive Law Section 995, whic in the Offender STR Index, the Fo Unidentified Humans Index, the N Relatives of Missing Persons Inde	ch is comprised of DNA profiles orensic STR Index, the Missing Person Index and the

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NYSID Number	The New York State Identification Number. A unique number assigned to a person upon fingerprinting. NOTE: This number is only applicable to New York State Convicted Offenders, other states have their own identifiers for offenders and arrestees.	
Obligate Allele	See "Required Allele".	
Offender Duplicate	CODIS case disposition when the more than one time due to duplica also serves as a quality control of	ate testing of the offender. This
Offender Hit (OH)	CODIS case disposition when a performance of the second evidence in an open of matches a convicted offence area NDIS.	rse (case with no conviction)
Offender Match Letter	A letter from NYS PCJS (for state convicted offender matches) or the offender hb (offender matches at NDIS) documenting a confirmed Offender Match. Provides the offender's identifying information and the investigating agency. It is used by the agency revestigating the case to obtain a court order to acquire another biological sample from the convicted offender for comparison to crime scene evidence.	
ORI	Stands for Originating Agency Id identification number that associa laboratory (OCME - NY030011F	ites a specimen with a particular
Other	The CODIS specimen category the Biology uses for forensic DNA partesting of crime scene evidence the forensic DNA profiles in the LIN one of which has already been up CODIS. These (pattern) profiles SDIS and only get searched in LIN	rofiles generated from the nat are known to match other KAGE and/or LDIS databases; loaded to the upper levels of are unmarked for upload to
Paternal Relative	The known reference sample volu biological relative who is not a far reported missing person. The DN category are considered evidentia Relatives of Missing Person Index	ther, child or sibling of a IA profiles for this specimen ry and are stored in the

1.0 CODIS TERMS AND ABBREVIATIONS		
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Pending	A CODIS disposition choice used final results from a confirmed ma agencies.	
Perpetrator	The individual who commits a crime. The identity of the perpetrator may or may not be known to the police.	
Personally Identifiable Information	Information that includes, but is not limited to, names, dates of birth, and social security numbers used to Newtify individuals. Personally identifiable information does not include information derived from the examination of the NDA sample.	
Positive Human DNA Control	A known reference DNA same reference material for which the I used to demonstrate the acceptabl	DNA profile is known, and is
Popstats	CODIS program available within statistical calculations using the F	
Privacy Act	Regulation which determines what information can be entered into CODIS in order to protect the rights of the individual.	
Proficiency Test	Protectency testing is a quality assignment of the performance and identify may be needed.	
Qualified DNA Analyst	A DNA analyst who has satisfied experience, education, training, p continuing education requirement Assurance Standards (Standards 5 with the DNA Identification Act completion of a qualifying test pr databasing responsibilities.	roficiency testing and ts of the FBI Director's Quality 5 and 13), issued in accordance of 1994, as well as successful
	In the Department of Forensic Big is defined as an Interpreting Anal higher title meeting the above req	yst who is a Criminalist II or
Quality Assurance	Those planned or systemic action confidence that a product or servi requirements for quality.	• • •

1.0 CODIS TERMS AND ABBREVIATIONS		
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Quality Control	The day-to-day operational techn fulfill requirements of quality.	iques and activities used to
Relatives of Missing Person (Index)	Consists of DNA records from the biological relatives of individuals reported missing and from the missing person. Exemplars submitted for purposes of identifying a missing person, received in the laboratory for DNA testing purposes, will be treated as evidence.	
Requesting Laboratory	A laboratory that sends a request to search SDIS or NDIS.	to the SOIS or NDIS Custodian
Required Allele	Specific designated alleles on a sorder for CODIS to declare a that attributable to the perpendent in a with a "+." Only one affect per let	tch. Required alleles are a mixture, and are designated
Required Alleles Specimen Category	A specimen category of forensic unknowns and/or forensic mixtures which can have up to one allele marked as an obligate, per locus Samples in this category are only searched at LDIS and SDIS, not NDIS.	
Revised Cambridge Reference Sequence (rCRS)	Apprision of the standard sequence (CRS) used in mitochondrial DNA typing.	
"Scientific Reason"	A statement that supports a search minimum of STR loci at the state apparent presence of mixtures, sa sample availability.	e or national level, such as the
SDIS	The State DNA Index System. The state DNA Index System. The records under the control of state the central point of contact betwee labs and NDIS. (See also convict	authorities. SDIS is typically een all New York State local
SDIS Custodian	An employee or designee of the I responsible for, among other duti technical requirements of CODIS computer hardware on which the	ies, maintaining SDIS, fulfilling and proper operation of the

1.0 CODIS TERMIS AND ABBRE VIATIONS		
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Search	A method for comparing target an any match.	d candidate profiles to see if
Search Stringency Parameters	Allows the user to define the number of alleles per locus that the target profile and candidate profile must have in common. It is a user-defined setting that is used as a filter to report locus matches of equal or higher stringency (see Low Stringency, Moderate Stringency, High Stringency).	
Search Results	After CODIS determines that two an electronic report is generated b the laboratories responsible for the	y CODIS and is distributed to
Searcher	Searcher is an application within the products. It provides a means of 1 by searching the probles within the matches to a target DNA profile.	ocating specific DNA profiles
Specimen/Sample	The biological sample (for example cells) that is the object of DNA and forensic identification or statistical	alysis for purposes related to
Specimen Category	Used to classify a DNA profile an specimen can be transferred. For forensic unknown and low copy n inserted into the Forensic index.	example, unidentified person,
Specimen ID	Identification number associated w the CODIS system. Specimen ID can be no longer than 24 character Forensic Biology uses a standard to section 4.1 of this manual.	numbers must be unique and rs. The OCME Department of
Specimen Manager	Specimen Manager (SpecMan) is a simplified, central interface for r records). In SpecMan, views of sp different criteria, specimens can b and uploads can be sent.	managing specimens (DNA pecimens can be created using

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Spouse	The known reference sample volunt presumptive parent of a common ch this specimen category are consider in the Spouse Index.	nild. The DNA profiles for
Spouse Index	A Spouse Index consists of the DNA records of a presumptive parent of a common child of a missing person.	
Statute of Limitation	A statutory provision which sets for time that can lapse after a criminal a court. If that maximum time period has not been formally charged for never can be.	act occurs for it to be taken to passes and the perpetrator
Stringency	Stringency levels define the number order to produce a match (low, mod	
Subject Index	An Index in the State DNA Database that contains samples from convicted offenders seeking early release from prison or parole, probation instead of prison, a plea bargain to a lesser offense or those patherpating in the Department of Correctional Services' discretionary program that results in early release of the offender income community.	
Submission Form	The DNA Databank Specimen Subr which contains the bar code number submitted to the convicted offender offender's DNA sample. This form identifying information, and the fac sample collection.	r of the offender's sample, is laboratory along with the contains the offender's
Submitting Agency	The agency that submitted evidence laboratory. The submitting agency i investigating crimes.	
Suspect	An individual whose identity is kno alleged to be the perpetrator of a cri from a suspect, such as blood or buc exemplars such as cigarette butts or laboratory for DNA comparison pur evidentiary.	me. Exemplars collected ccal specimens, or pseudo- soda bottles, received in the

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Suspect Case	suspect(s) have been include	een conducted and the listed ed. and no DNA analysis has been
Target DNA Profile	A target profile is a DNA profile for which you are trying to find a matching DNA profile. This profile is submitted by a criminal justice agency for the purpose of searching against DNA profiles maintained by SDIS and NDIS which could match an indexed DNA profile.	
Unidentified Human (Remains) Index	Consists of DNA records from recovered living persons (for example, children who can't redomers who can't or refuse to identify themselves), and recovered dead persons (including their body parts and tissues) whose identities are not known.	
Unidentified Person	The DNA profile developed from the recovered deceased (including body parts and tissue) or an individual who is unidentified (for example, children who can't and others who can't or refuse to identify themselves). The DNA profile for this specimen category is stored in the Unidentified Human (Remains) Index.	
Upload	The transfer of electronic data from a lower level of CODIS (LDIS or SDIS) to an upper level (SDIS or NDIS).	
User	Personnel who have login access to CODIS and/or qualified DNA analysts who are responsible for producing the DNA profiles stored in NDIS.	
User Defined 1, 2, 3	CODIS case dispositions that can be defined by the user in the event that the others are not appropriate.	
Use and Dissemination Agreement	An official document allowing the transfer of Databank information from one agency to another. This document contains requirements for the confidentiality and dissemination of DNA information and procedures for laboratories participating in SDIS and NDIS.	

1.0 CODIS TERMS AND ABBREVIATIONS

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Warm match/hit

A warm match occurs when CODIS DNA profiles match based on prior knowledge. A typical example is when DNA profiles from several cases match that were submitted to the laboratory as a pattern.

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9 NYCRR Part 6192		provides for the establish cation Index in New York	
ASCII		rd Code for Information I natting such as tabs, bold	
Accreditation	meets or exceeds Quality Assurance nonprofit professi forensic science the science community	on that a DNA laboratory a list of standards, includ e Standards, to perform s onal association of pero hat is nationally recognize ty in accordance with the ntification Act 42 U.S.C.	ing the FBI Director's confic tests by a is actively involved in ed within the forensic provisions of the
Administrative removal		DNA record upon verific s not eligible for inclusion	
Allele	particular locus. I commonly extend length and/or sequ	cs, one of the alternate for In DNA analysis, the tern led to include DNA fragm uence which may have no oduct but are detected in a	n "alleles" is nents of variable hown
Arrestee	The known sampl accordance with t to provide a DNA database. The terr charged in a form	e from a person who has he law of the applicable j sample for analysis and n "arrestee" includes pers al criminal instrument, su	urisdiction is required entry into a state DNA sons who have been
Arrestee Index		x consists of DNA record adjusted with a crime and a pples.	-
Autosearcher		n that automatically searce l index against all profiles exes.	-

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Biological Child	child or provided child of a reported	nce sample voluntarily pr with the parental/guardia d missing person. The DN y is stored in the Relative	n consent for a minor A record for this
Biological Father/Mother	known reference a father/mother of a specimen categor the CODIS index Index." These DI	men category for DNA p samples provided volunta reported missing person y are considered evidentia known as "Relatives of N NA profiles pretremoved o s were sugnarited has been	the biological Profiles in this ary and are stored in Aissing Persons once the individual for
Biological Sibling	known referenced sibling of a report category are con- index known as " DNA profile is re	more category for DNA pro- samples provided volunta ed missing person. Profit idered evidentiary and are Relatives of Missing Pers moved once the individua itted has been identified.	rily by the biological les in this specimen e stored in the CODIS ons Index". This
Cambridge Reference Sequence	DNA typing to will compared. Mitoch	andard sequence used in thich other mitochondrial in the nondrial DNA profiles are the standard reference sequence of the hum 981; 290:457-465].	DNA types are reported as uence [Anderson, S.,

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Candidate Match	by CODIS softwa affected laborato	a between two or more DNA are. A qualified DNA analy ry must verify a candidate m complete a confirmation pro- atch or hit.	st from each atch. Candidate
Candidate Profile	A DNA profile n profile).	natching the target DNA pro	file (see target DNA
Case Disposition		e (confirmed conviction, off ninal case aided by CODIS.	ender hit, forensic
Case Report		ed by a forenvic taboratory de lyses of the crime scene evic	
Casework Laboratory		laboratory responsible for D rime scene evidence.	NA profiles
CJIS-WAN	Network that pro States law enforce support the Integ System (IAFIS), WAN to include participating in th	a Justice Information Services communications network ement community. Original rated Automated Fingerprint the FBI is expanding the sco all federal, state and local cr ne National DNA Index Syst	ork for the United ly designed to Identification ope of the CJIS- ime laboratories
CMF AIG	Common Messag for importing dat	ge Format, an ASCII text file a into CODIS.	e format necessary
\diamond			

1.0	CODIS TERMS A	ND ABBREVIATIONS	
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CODIS	CODIS links DNA identifying serial of evidence to DNA providing investig perpetrator. In add	NA Index System administer A evidence obtained from cr criminals. CODIS also com- profiles obtained from offer gators with the identity of the dition, CODIS contains prof- ried human remains and rela	rime scenes, therel pares crime scene nders, thereby e putative files from missing
	(LDIS), used by in System (SDIS), used atabase containing the National DNA	vels of CODIS: the Local D ndividual laboratories the S sed at the state level to serve ng DNA profiles from LDIS A Index System (NDIS), man datapase containing all DN cates	State DNA Index e as a state's DNA b laboratories; and naged by the FBI a
CODIS Administrator		CODIS staff with administr by the CODIS Supervisor. ftware.	
CODIS Core Loci	CODIS for a parti ore loci are CSF D3S1358, D5S81 vWA D19S433,	DNA loci that are accepted cular DNA testing method. 1PO, D13S317, D16S539, I 8, D7S820, D8S1179, FGA D2S1338, Penta E and Pent as they are NOT CODIS co	Currently the ST D18S51, D21S11, , TH01, TPOX, an ta D are accepted
CODIS Information Fechnology (IT) User	access to the COL telecommunicatio	ployee of a CODIS laborate DIS system for computer har ns maintenance purposes bu modify or delete DNA reco	rdware/software an at who is not
CODIS Custodian/Supervisor	CODIS system an Custodian"). This	CODIS staff responsible for ad all its functions (also calle s person fulfills the role of C defined by the FBI QA Stan	ed "LDIS Casework CODIS

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CODIS User	system and is auth records in CODIS	pployee who: (1) has login a horized to read, add, modif ; or (2) is a qualified DNA [A profiles stored in NDIS. ftware.	y or delete DNA analyst responsible
CODIS User Plus		who has also been granted to of a profile. This is a labor re.	
Contract Laboratory		ally in the private sector, the ontract to a forensic laborate	
Control Certification Form	and the negative NIST. One docu	ertifies that the positive hun controls satisfy the requiren- next must be completed an origin before DNA profiles	nents established by d submitted annually
Cold Hit	Two DNA profile profiles are relate	es matching with no prior ir d.	ndication that the
Composite DNA Profile	different loci obta amplified sample	enerated by combining typi ined from multiple injectio and/or multiple amplificati en separate extracts from a d prior to amplification, the sidered a composite profile.	ons of the same lons of the same given evidentiary resulting DNA

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Convicted Offender	from any person v state, and/or local establishment of a State, this is a per Executive Law, S category are store Offender Index" (imen category for a DNA who has been convicted o courts where the applicate a DNA record for this per roon convicted of one of the fection 995(7). Profiles in ed in the CODIS index kn (or Offender Index). As o in New York must give a	f a crime in federal, ble law permits son. In New York he crimes listed in a this specimen own as the "Convicted of June 2006, all
Convicted Offender Index	offenders convict	ender Index consists of DI ed of qualifying state crim elevant jury dection to prov	nes and juveniles
Convicted Offender Lab	developed from (laboratory responsible for onvicted Offender sampl New York State Police Fo	es. In New York
Convicted Offender Sample		ple containing DNA that i cted offender for the purp	
Convicted Offender Profile	These DNA profi "Convicted Offen the "Convicted O index of DNA ide	enerated from a convicted les are put into the CODI ider" and are stored in CC ffender Index." These pr entification records that an he DNA profiles generate	S specimen category DDIS index known as ofiles establish an re searched for
Conviction Match	DNA profile from	generated from crime scen a convicted offender, bu nvicted of the crime for v	it the offender has

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Criminal Justice Agency	A criminal justice agency is an agency or institution of the federal, state, or local government, other than the office of the public defender, which performs as part of its principal function, activities relating to the apprehension, investigation, prosecution, adjudication, incarceration, supervision or rehabilitation of criminal offenders. For purposes of participation in the National DNA Index System, the DNA Identification Act of 1994 was amended by Public Law 106-546 to include the Secretary of Defense in accordance with 10 U.S.C. §1565
Criminal History Record	Documents generated by DCJS that contain arrest, charges, conviction, sentence, location and identifying information of a convicted offender.
DAO	Stands for District Attorney's Office. There is one in each of the five boroughs of New York City.
Databank Coordinator	An employee or designee of the Division of Criminal Justice Services responsible for administrative requirements related to the New York State DNA Databank.
DCJS	Stards for Division of Criminal Justice Services. Acts as a liaron between local New York laboratories and the New York State Police Laboratory. DCJS manages the program responsible for collection of offender samples in New York State, handles requests to expedite samples and database searches and handles legal requests for convicted offender information.
DCJS Match Letter	• A letter generated by DCJS after a match between a forensic DNA profile and a New York State Police convicted offender profile has been confirmed. The purpose of this letter is to notify the laboratory of a confirmed match, provide case and agency information, the identity of the offender, and current offender location.
$\mathbf{Q}_{\mathbf{Q}_{-}}$	The DCJS Match Letter is provided to the DAO's upon request.

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Deduced Missing Person	examining refere brush) of a report category are cons Missing Person I against the Relati	imen category for DNA pro nce samples (for example, to ted missing person. Profiles sidered evidentiary and are s ndex. This index is searched ives of Missing Persons Inde nan (Remains) Index.	oothbrush, hair in this specimen stored in the CODIS I and compared	
Detainee	detained under th	le from a non-United Stars a authority of the U.S. and a ample for analysis ard entry	required by law to	
Detainee Index	(U.S.) persons de	onsists of ONA records from ptained under the authority o o provide a DNA sample.		
DNA Analysis Backlog Elimination Act	convicted of spe	phection of DNA samples fr fied Federal Felony offense ted offenders, and military of	es, certain District of	
DNA Analyst	traning requirem casework referen and had entered i with the FBI's Q Testing or DNA I	t has successfully completed ents for casework or databa- ce sample analysis, passed a nto a proficiency testing pro- <i>uality Assurance Standards</i> <i>Databasing Laboratories</i> . The directs the analysis of sampl lusions. See also, Interpretin Analyst.	se, known or a competency test, ogram in accordance <i>for Forensic DNA</i> his individual es, interprets data	
DNA Databank	The New York S Executive Law S	tate Identification Index (as ection 995) comprised of Dl der index, the Forensic inde:	NA profiles in the	

1.0 CODIS TERMS AND ABBREVIATIONS		1.0 CODIS TERMS AND ABBREVIATIONS		
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DNA Identification Act	by the DNA Ana	on Act of 1994; 42 U.S.C. § lysis Backlog Elimination Ac ct of 2004 and the DNA Fing	ct of 2000, the	
DNA Profile	individual at a sp	of DNA alleles carried by a ecified set of genetic loci wh vidual to be distinguishable al.	ich permits the	
DNA Record	required to mana Agency Identifie agency; the Spec	d that includes the DNA prof ge and operate NDIS, i.e., the r which serves to identify the imen Identification Number; ated with the DNA profile an	e Originating submitting and DNA	
Elimination Sample	husband or cons or victim which portions of a fore perperator. This bestored at the s	ple from a known individual isual partner), other than the is analyzed for purposes of it is analyzed for purposes of it such samples are considered	e alleged perpetrator dentifying those e to the alleged en category may not eligible for	
Equivalent Allele Paramete	target allele matched defined to be the allele values are $a = 10$ with res administrator. D	is parameter is used to detern thes a candidate allele. It is a same as another PCR allele reciprocal. For instance, at T pect to searches. Equivalenc uring review of a candidate r her the values are indeed equi	PCR value that is value. Equivalent HO1, $9.2 = 9.3 =$ y can be set by the natch, the reviewer	
Executive Law Article 49-B Section 995		w York State law establishin nce and the DNA Identificati	-	

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Expert System	the data generate accordance with	gram or set of software prog d from DNA analysis instru the laboratory-defined qualit entifies the data that does or	nent/platform in ty assurance rules
Expungement	levels in response overturned a con offense; (2) a cou	DNA profile at the state and e to the following: (1) a coe victed offender's conviction ort order establishing that cha ilted in acquittal, or hocharg ne period.	rt order that has For a qualifying arges were
FBI	authorized by the quality assurance databasing labor	eau of Investigation is the fea DNA Dentification Act of standards governing forensi tonies and to establish and a dex System (NDIS).	1994 to issue ic testing and DNA
FB-LDAS or LINKAGE	the Paradox DNA results for case li	V Local DNA Analyses Syster database used to search pre- nks. LINKAGE contains bo and suspect profiles.	eliminary DNA
Forensic DNA Laboratory	government that evidence or mate evidence in a crit	performs forensic DNA testi rials derived from the human ninal proceeding or for purp secutive Law section 995(2))	ng on crime scene n body for use as oses of
Forensic DNA Profile	evidence. These not known with c crime or whose I crime. These pro "Forensic Unkno	enerated from the testing of profiles are from persons where certainty and who left DNA a DNA was carried away from ofiles are put in the CODIS s own". Profiles in this categor own as "Forensic STR Index	hose identities are at the scene of a the scene of a pecimen category ry are stored in the

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Forensic DNA Testing	the human body f	loys techniques to examine or purpose of providing info ation (Executive Law section	ormation to resolve	
Forensic Hit (FH)	-	osition when two or more fo l a case-to-case hit.	prensic samples are	
Forensic Index	associated with eve evidence associat be carried away find the specimen cate	consists of DNA profiles of vidence found at crime scene ed with a crime scene from rom a crime scene. The Fore gories Forensic Unknowns he New Yolk State level, Lo	S. For example, les DNA that may ensic Index contains and Forensic	
Forensic Mixture	Forensic Index at sample found at it	ory in the CODIS software d originates from a forensic to scene of a crime) that con more than one source.	sample (biological	
Forensic Match Letter	Match. This lette	oratory documenting a con r provides information rega- ncy and offender information	rding the	
Forensic Obligate Index	and contains six t Profiles in this inc	tains the specimen category o nine loci, searched at mod dex are only searched at SD ploaded to NDIS.	erate stringency.	
Forensic STR Index	The CODIS index	that contains forensic DNA	A records.	
Forensic Sample		ple from a crime scene or cr nese samples generates forer		
Forensic Unknown	generated from th	men category for forensic E te testing of crime scene evi- egory are stored in the COD dex."	dence. Profiles in	

CO TC ' n a

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Heteroplasmy	The occurrence of more than one mitochondrial DNA profile (mitotype) arising from a particular tissue(s) within an individual; exhibiting more than one base at a particular nucleotide position.		
High Stringency	The number of alleles and the corresponding allelic values are the same between two DNA profiles at a given locus.		
High Stringency Match	All alleles at all loci match at high stringercy. A confirmed match between two or more DNA profiles. Hits can occur at or between any level (local, stare and national) in the CODIS hierarchy. Hits can be a Forensic Hit, an Offender Hit, an Arrestee Hit (some states), one Suspect Hit (Forensic Biology only).		
Homopolymeric Regions	length of mtDNA	variable lengths of the san (ne. CCCCCC), these gene \$16193 in HV1 and 303-3	erally occur around
Hypervariable Region I		eased variability in the mite common nucleotide positi e 16024 to 16365.	
Hypervariable Region II		eased variability in the mite e common nucleotide positi e 73 to 340.	
Identifying Information	and ID numbers, e	Convicted Offender's perso e.g. name, NYSID#, DOB, nation is prohibited in COD	SS#, etc.
Index Offense		d in Executive Law Section eligibility for inclusion in t	

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Indictment		accusation originating wit jury against a party charg	-
Interpreting Analyst		analyst responsible for int Interpreting Analysts are	
Investigating Agency	See Submitting A	gency.	
Investigations Aided (IA)	submission to a la casework laborate that were assisted	igation equates to a case, aboratory. An investigation ory is the number of cases by CODIS. Investigation isted = Case, a ded = Case	n aided for a submitted to the lab is aided =
Juvenile	relevant jurisdicti DNA sample for	le from a juvenile (as that on whe is required by sta analysis and entry into a st for this specimen category for Index.	te law to provide a tate DNA database.
Keyboard Search	or NEIS the searc	of CODIS initiated by a C ch is initiated by the SDIS h is done by a member of	or NDIS Custodian.
Keyboard Search Request	Databank at LDIS information relati	a agency for a keyboard se S, SDIS or NDIS. This lett ng to the DNA profile, the of the control values.	er includes all of the
Keyboard Search Result Letter		Databank Coordinator doc of the Keyboard Search.	cumenting the results
Known Sample	example of a know	al whose identity or type i wn sample is a sample cor e of a missing person.	

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Laboratory	are qualified DN. capability to perf	ploying at least two full-tim A analysts and (2) having an orm the DNA analysis of fo ce samples, or on database a acility.	nd maintaining the rensic and/or
LDAS	contains the local contains casewor profiles generated suspects develop	Analysis System, a Paradox DNA profiles. The LDAS k non-mixture (or deduced) from casework and DMA ed during the course offering commonly called LINKAG	for Forensic Biology Forensic DNA profiles from inal investigations.
LDIS	selected from LD those eligible) fo CODIS indexes. LDIS also conta	Index System contains the I AS for searching for DNA interting into higher level as DNA records for profiles AGE, such as non-deduced r	matches and (for (SDIS and NDIS) not suitable for
LAB-TYPES	Forensic Biology other DNA profil staff).	n contains DNA profiles from staff, known contaminant I es from known individuals	DNA profiles, and
Legal (sample)	The known refere is collected under DNA samples that elimination purport example of a Leg found not guilty lar relevant state law entry into a state specimen categor	ence sample from a person we rapplicable legal authorities at are voluntarily submitted oses shall not qualify as a Le gal specimen is a sample col- by reason of insanity who is to provide a DNA sample for DNA database. The DNA p ry is stored in a Legal Index	s, provided that solely for egal specimen. An lected from a person required by the for analysis and rofile for this
Legal Index	A Legar much co	nsists of DNA records of pe cted under applicable legal	

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LINKAGE	See LDAS.		N
LINKAGE User	LDAS/LINKAGE and/or delete DN	loyee who: (1) has login acc E system and is authorized to A records in it; or (2) is a qu le for producing DNA profil E.	o read, add, modify alified DNA
Low Copy Number or Low Template DNA Analysis	validation, any Di quantity and/or qu demonstrated incr Template or Low which may be obs conditions include and increased intr analyze limited q stochastic thresho conditions may it cycles, post ampl	DIS, based upon a laboratory NA typing results generated uality DNA template using c reased stochastic effects are Copy DNA undyses. The st served in DNA samples subj e allene drop-in or drop-out, a-locus peak height imbalan uantity and/or quality DNA olds, Low Template or Low of clude the following: addition ification purification, reduced ment by increased voltage of	from limited conditions that have defined as Low tochastic effects ected to these increased stutter ice. When used to template below the Copy DNA nal amplification ed reaction volume
Low Copy Number Specimen Category	Biology LDIS and uploading and sea	gory existing at the Departme d at New York State SDIS for arching profiles generated us ation) techniques. Such pro-	or the purpose of sing low copy
Low Copy Number Profile	using extra cycles	on composite profiles that has during amplification. Thes Copy Number Specimen Ca	e samples are
Low Stringency	0	, an allelic value for one alle allelic value for one allele fr	-
Low Stringency Match	At least one locus	matches at low stringency.	

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Marked/Unmarked Profile	upload to SDIS.	n Specimen Manager are pr Unmarked profiles are those S. Pattern and suspect prof	e profiles deselected	
Match	or more DNA pro designated labora At the Casework evaluation, a high and evaluated by previously a qual Laboratory, a may be reviewed and o	when CODIS makes an asso- ofiles and a confirmation is p atory personnel from each at Laboratory and for the purp a stringency match at all he an individual who is curren ified DNA analyst Athle C tch at any loci at ress than h evaluated by a DNA casework connology using reviewed.	performed by fected laboratory. ose of match may be reviewed tly or was casework igh stringency shall	
Match Confirmation	The process of determining if a potential candidate match generated by CODIS or other database software is a true match and should be reported to the investigating agency.			
Match Manager	Match Manager (MatchMan) is the CODIS module that allow for the managing and sorting of matches discovered through t use of CODIS. Matches are added to Match Manager by the Searcher and Autosearcher programs.			
Match Report	candidate match i	generated by CODIS when is made by CODIS software	-	
Match Stringency	alleles and the same	level stringency (low, mode a stringency for the match b ined by the lowest locus-lev A Match Stringency is use to DNA profiles are identifie supports three Match String gh. Low stringency matches the between the target and ca derate stringency matches re- get and candidate profiles c of alleles. That is, if the targ mple profile has two, then the gency matches require all a	etween two DNA vel stringency for all ed to establish ed as matching. The gency levels: low, occur when one or ndidate profiles at a equire all alleles to an contain a get profile has three wo alleles must	

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1.0	ND ABBREVIATIONS	NS	
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Maternal Relative	biological relative reported missing category are cons	nce sample voluntarily prove who is not a mother, child person. The DNA profiles idered evidentiary and are s ing Persons Index.	or sibling of a for this specimen
Mis-match (search)	one locus of a pro stringency level b match. For instar locus with entered match at moderate low stringency ma Searches allowing SDIS; the purpose spite of a possible locus of any give then the match matc	in Searcher and Autosearch offile being searched to mate- eing searched, and still retu- nce, during a moderate search d alleles, in the two profiles e or high stringency, one loo atch or not a mitch at all, w g one mis untrch are perform e is to identify offender and typographical or interpreta profile. If this parameter is occur with no mis-match r to be returned by the search	h (or not) below the in the result as a ch, if all but one being compared, cus which is either a ill be displayed. ned at LDIS and forensic matches in tional error at one is set to "zero", nes at the selected
Missing Person	volumarily provid nusing person re as originating from	nce sample of an individual led by a relative or the perso port. The source of the DN m the missing person and is index. These samples are c	on who filed the A has been verified stored in the
Missing Person Inde	U	Index consists of DNA rec	cords of missing
Mitochondrial DNA	cells and generall	viece of DNA found outside y involved in the production lergy production in the body	n of proteins

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Mitotype	sequence differen typically the Cam Cambridge Refere	DNA profile consisting of a ces from a standard reference bridge Reference Sequence ence Sequence (rCRS). The he length of the sequence de	ce sequence; (CRS) or revised mitotype will vary	
Moderate Stringency	For a given locus, a minimum number of common alleles and th corresponding allelic values must be the same between two profiles. The minimum number is determined by the profile with the fewest alleles. This is the standard search stringency.			
Moderate Stringency Match	A match between two DNA profiles in which the locus-level stringency match for all the loci of the match was either at moderate or high stringency. No loci matched at low stringency			
NCIC	National Crime In	nformation Center.		
NCIC Miscellaneous Field	information as to produced may be	the location where DNA propagation of the placed. This field should also a candidate DNA sample d	ofiles have been so be used to enter	
NCIC Unidentified	The file in NCIC	containing records for unide	entified deceased	
Person File	persons; persons ascertain their ide body parts. For C unidentified perso	of any age who are living an entity; unidentified catastrop ODIS purposes, the DNA proposes in the Unidentified Hum ds in the NCIC Unidentified	d unable to he victims; and rofile for an Remains Index	
NDIS	CODIS – the nati DNA records con local laboratories	A Index System. NDIS is or onal and highest level index tributed from participating f . NDIS is administered by th he provisions of the DNA Io l.	containing the ederal, state and he FBI in	

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1	1.0 CODIS TERI	MS AND ABBREVIATIONS	
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	supports the are comprise DNA profile missing pers	es DNA records from every lo searching functions of CODIS ed of forensic DNA profiles, co s, arrestee DNA profiles, DNA ons and relatives, and anonym to a population database.	5. These DNA records onvicted offender A profiles from
NDIS Standards for Acceptance of DNA Data	for DNA dat National leve	nt prepared by the FBI specify a to be accepted for searching el. These must be reviewed d currently consist of a web ba	CODIS analysts
Negative Amplification Blank	without adde	ontrol sample Containing amp ed DNA, used to detect DNA on the reagents during testing.	
Negative Control		included in a batch of specime esting methods, should yield i	
Negative Reagent Blank	A negative s	ontrol sample containing all te which is used to detect DNA	esting reagents withou
NIST	Stands for th	e National Institute of Standar	rds and Technology.
No Match		disposition for a moderate str en two cases that are not a tru	
No Suspect Case	1. A case checkin submis 2. A case	with no suspect listed. This is ng all paperwork associated w sion and case contacts. in which DNA testing has been	ith the evidence
NYPD	listed s Stands for th	uspect(s) have been excluded. he New York (City) Police Dep	

1	.0 CODIS TERMS A	CODIS TERMS AND ABBREVIATIONS		
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NYS Administrator	oversight and app	ate Administrator is respons roval of CODIS functions a ervising the SDIS custodian	t the state level.	
NYS DNA Databank	The New York State Identification Index as used throughout Executive Law Section 995, which is comprised of DNA profile in the Offender STR Index, the Forensic STR Index, the Unidentified Humans Index, the Missing Person Index and the Relatives of Missing Persons Index.			
NYSID Number	assigned to a pers only applicable to	ate Id entification Number. on upon fingerprinting. NC New York State Convicted own identifiers for offenders	OTE: This number i l Offenders, other	
Obligate Allele	See "Required Al	lella".		
Offender	An individual who is required by statute to submit a sample for DNA analysis and databasing. The term "offender" includes individuals who are convicted or arrested for a crime or juveniles adjudicated delinquent for an offense and required by state or federal law to provide a DNA sample for analysis and databasing.			
Offender Duplicate	more than one tin	osition when the same offen ne due to duplicate testing of uality control of the databas	f the offender. Thi	
Offender Hit (OH)	CODIS case disposition when a DNA profile generated from crime scene evidence in an open case (case with no conviction matches a convicted offender profile (or arrestee) at SDIS or NDIS.			
Offender Laboratory	from a sample pro laboratory for the	sponsible to NDIS for a DN ovided by a known offender State of New York is locate he New York State Police L	The offender ed at and	

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1.0 CODIS TERMS AND ABBREVIATIONS			
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Offender Match Letter	or the offender la confirmed Offend information and t agency investigat another biologica	S DCJS (for state convicted b (offender matches at NDI der Match. Provides the offe he investigating agency. It ing the case to obtain a cou l sample from the convicted ime scene evidence.	S) documenting a ender's identifying is used by the rt order to acquire
ORI	identification nur	nating Agency Identifier (nber that associates a speci E - NY030011K)	
Other	Biology uses for testing of crime s forensic DNA pro one of which has CODIS. These	imen category that the Depa forensic DLA profiles gene cene evidence that are know ofiles in the LINKAGE and aneady been uploaded to th oattern) profiles are unmark t searched in LINKAGE ar	rated from the vn to match other /or LDIS databases; ne upper levels of ed for upload to
Paternal Relative	biological relative reported missing category are cons	ence sample voluntarily pro e who is not a father, child of person. The DNA profiles sidered evidentiary and are s sing Person Index.	or sibling of a for this specimen
Pending		ition choice used temporaril a confirmed match from th	
Perpetrator		ho commits a crime. The id or may not be known to the	•
Personally Identifiable Information	birth, and social s Personally identit	includes, but is not limited t security numbers used to ide fiable information does not examination of the DNA sa	entify individuals. include information

1.0 CODIS TERMS AND ABBREVIATIONS				
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Positive Human DNA Contro	reference materia	ce DNA sample traceable l for which the DNA prof ate the acceptable perform	ile is known, and is	
Popstats	1 0	available within the COD tions using the FBI popula		
Privacy Act	-	determines what informated der to protect the rights of		
Proficiency Test	Proficiency testing is a quality assurance measure used to monitor performance and identify reas in which improvement may be needed.			
Qualified DNA Analyst	A DNA analyst who has satisfied and continues to satisfy the experience, education, heining, proficiency testing and continuing education requirements of the FBI Director's Quality Assurance Standards (Standards 5 and 13), issued in accordance with the DNA Identification Act of 1994, as well as successful completion of a qualifying test prior to beginning casework or databasing responsibilities.			
X	is defined as an Ir	t of Forensic Biology a Q nterpreting Analyst who is ng the above requirements	s a Criminalist II or	
Quality Assurance	-	systemic actions necessar product or service will sa quality.	• • •	
Quality Control	The day-to-day op fulfill requiremen	perational techniques and ts of quality.	activities used to	
Relatives of Missing Person (Index)	individuals report Exemplars submi	records from the biologic red missing and from the r tted for purposes of identi n the laboratory for DNA ence.	nissing person. fying a missing	

1.0 CODIS TERMS AND ABBREVIATIONS			
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Requesting Laboratory	A laboratory that to search SDIS or	sends a request to the SD NDIS.	IS or NDIS Custodian
Required Allele	order for CODIS attributable to the	ed alleles of a specimen an to declare a match. Requ perpetrator in a mixture, one allele per locus can b	ired alleles are and are designated
Required Alleles Specimen Category	mixtures which ca	ory of forensic unknown an have up to one allele o es in this category are onl DIS.	arked as an obligate,
Revised Cambridge Reference Sequence (rCRS)		standard Sequence (CRS)	used in mitochondrial
"Scientific Reason"	minimum of STR	upports a search using fer loci at the state or nation of mixtures, sample degr y.	al level, such as the
SDIS	r cords under the the central point o	ndex System. The State's control of state authoritie of contact between all New See also Convicted Offend	s. SDIS is typically w York State local
SDIS Custodian	responsible for, and technical requirem	esignee of the New York mong other duties, maintanents of CODIS and prop re on which the DNA Dat	ining SDIS, fulfilling er operation of the
Search	A method for com any match.	nparing target and candida	ate profiles to see if
Search Stringency Parameters	the target profile a is a user-defined s matches of equal of	o define the number of all and candidate profile mus setting that is used as a fil or higher stringency (see ncy, High Stringency).	t have in common. It ter to report locus

1.0 CODIS TERMS AND ABBREVIATIONS

1.0 CODIS TERMS AND ABBREVIATIONS			
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Search Results	an electronic repo	ermines that two or more a ort is generated by CODIS esponsible for the matchin	and is distributed to
Searcher	products. It provi	blication within the CODI ides a means of locating s profiles within the CODIS et DNA profile.	pecific DNA profiles
Specimen/Sample	cells) that is the o	mple (for example, blord) bject of DNA analysis for ation or statistical populat	purposes related to
Specimen Category	specimen can bet	DNA profile and determinantened. For example, and low copy number carolensic index.	unidentified person,
Specimen ID	the CODE system can be no longer t	ther associated with a DN n. Specimen ID numbers than 24 characters. The C uses a standard format wh manual.	must be unique and OCME Department of
Specimen Manager	a simplified, centre records) In Spec	er (SpecMan) is a CODIS ral interface for managing Man, views of specimens specimens can be marked be sent.	specimens (DNA can be created using
Spouse	The known refere presumptive parent this specimen cate in the Spouse Inde	nce sample voluntarily pr nt of a common child. Th egory are considered evid ex.	e DNA profiles for
Spouse Index	A Spouse Index c	onsists of the DNA record on child of a missing pers	

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1.0	.0 CODIS TERMS AND ABBREVIATIONS		
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Statute of Limitation	A statutory provision which sets forth the maximum period of time that can lapse after a criminal act occurs for it to be taken to court. If that maximum time period passes and the perpetrator has not been formally charged for the criminal act, then he or she never can be.
Stringency	Stringency levels define the number of alleles that must match in order to produce a match (low, moderate or high).
Subject Index	An Index in the State DNA Database that contains samples from convicted offenders seeking early release from prison or parole, probation instead of prison, and a bargain to a lesser offense or those participating in the Department of Correctional Services' discretionary program that results in early release of the offender into the community.
Submission Form	The DNA Databanic Specimen Submission Form. This form, which contains the bar code number of the offender's sample, is submitted to the convicted offender laboratory along with the offender's DNA sample. This form contains the offender's identifying information, and the facility responsible for the subme collection.
Submitting Agency	The agency that submitted evidence to a forensic DNA crime laboratory. The submitting agency is responsible for investigating crimes.
Suspect	• An individual whose identity is known to the police and who is alleged to be the perpetrator of a crime. Exemplars collected from a suspect, such as blood or buccal specimens, or pseudo-exemplars such as cigarette butts or soda bottles, received in the laboratory for DNA comparison purposes, are considered evidentiary.
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Controlled versions of Department of Forensic Biology Documents only exist electronically on the Forensic Biology network. All printed versions are non-controlled copies.

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Suspect Case	suspect(s) h 2. A case with	hich DNA has been conduct ave been included. a suspect listed and no DNA to exclude them.	N
Target DNA Profile	a matching DNA justice agency for	s a DNA profile for which ye profile. This profile is subr the purpose of searching a DIS and NDIS which court i	nitted by a criminal tainst DNA profiles
Unidentified Human (Remains) Index	example, children identify themselv	records from recovered livi who can't redothers who res), and recovered dead per- sues) whose identities are n	can't or refuse to sons (including thei
Unidentified Person	(including body) unidentified (for can't or refuse to	developed from the recover barts and tissue) or an indivi- example, children who can't identify themselves). The I y is stored in the Unidentifie	dual who is t and others who DNA profile for this
Upload	(LDIS or SDIS) t	ectronic data from a lower l o an upper level (SDIS or N	
User Ar	Personnel who ha DNA analysts wh profiles stored in	ave login access to CODIS a no are responsible for produc NDIS.	

1.	0 CODIS TERMS A	AND ABBREVIATIONS	
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User Defined 1, 2, 3		ositions that can be defined ers are not appropriate.	by the user in the
	User Defined 2 is additional sample	s not used in OCME's LDIS s generally used when a force taken from the same offen ad hit previously. This is c	ensic sample hits an der which the
	among all the NY User Defined 3 is	labs. s generally used when a for	ensic sample hits a
	consensual partne to be obtained for matches/hits of th	SDIS which turns out to be er or other elimination samp r in-house testing. Forensic his type are ther demoved fr	ble which was unable samples involved in rom the database.
	match resolution	is also the earch-all" for all s. This disposition is define oncherence by SDIS.	
Use and Dissemination Agreement	information from contains requiren	nent allowing the transfer of one agency to another. The nents for the confidentiality tion and procedures for labor S.	is document and dissemination
Warm match/hit	on prior knowled	ccurs when CODIS DNA page. A typical example is we see match that were submitten a suspect exemplar submit t case.	hen DNA profiles d to the laboratory a
00 ^{cumer}			

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2.1 Forensic Biology CODIS Overview

The Department of Forensic Biology will enter DNA profiles from evidentiary items into LINKAGE and LDIS in accordance with departmental, New York State and FBI CODIS procedures. These profiles will be compared to DNA profiles from other Forensic Biology cases. The information in LDIS must either be eligible for entry into the New York State SDIS or be unmarked for upload (such as pattern or suspect profiles).

The primary requirement for a DNA profile to be entered into SDLS and NDIS is that it be from an item of evidence that reasonably could be expected to contain the alleles of the perpetrator. To attempt to eliminate the possibility of the alleles being from the victim or other non-perpetrator, there must be a good-faith effort to obtain the necessary victim exemplars or other elimination samples. The repartment of Forensic Biology considers two requests for such exemplars or elimination samples, separated in time by a minimum of two weeks, to satisfy the "good faith," requirement.

NOTE: DNA profiles are eligible for LINRAGE and/or LDIS only if a crime has been committed. If a case has been deemed to be unfounded by the NYPD, no DNA profile generated in that case is eligible for entry.

Forensic DNA profiles in LDIS will be compared to all other forensic DNA profiles in LDIS. After upload to SDIS, they will be compared to profiles contained within the New York State SDIS. Those DAA profiles eligible for NDIS will be uploaded to NDIS and compared to profiles within NDIS.

Candidate matches will be subjected to a confirmation process, including review of the associated case fine(s) and data. After a forensic-forensic, forensic-offender, forensic-arrestee, or increasic-suspect match has been confirmed, the New York City Police Department and the appropriate District Attorney's Office(s) will be notified.

Missing persons candidate matches will be subjected to a confirmation process, including review of the associated case file(s) and data. After the match has been confirmed, the Medical Examiner of record and the OCME Identification Unit will be notified.

The Department of Forensic Biology will track the usefulness of the CODIS databanking program with the assistance of the Office of the Criminal Justice Coordinator, Offices of the District Attorney and the New York City Police Department.

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2.2 Combined DNA Index System (CODIS)

COmbined DNA Index System (CODIS) is the Federal Bureau of Investigation Program that refers to the entire system of DNA indexes (convicted offender index, forensic index, etc.). CODIS is a hierarchy of DNA databases from forensic laboratories around the United States maintained at the Local, State and National levels. It contains DNA profiles of individuals previously convicted of serious crimes as well as forensic DNA profiles (collected from items of evidentiary value). Suspect profiles may be maintained and searched at the local level only. Its function is to identify DNA matches between convicted individuals and forensic DNA profiles as well as DNA matches between forensic DNA profiles. As of January 2003, all 50 states, Puesto Rico, Guam and 2 federal labs participate in CODIS. The goal of CODIS is to provide investigative assistance to law enforcement investigators in the field.

2.3 Forensic Biology Local DNA Analysis System (LDAS or LINKAGE)

The Department of Forensic Biology manuans a Local DNA Analysis System (LDAS or LINKAGE). This is a Paradox database of DNA profiles generated during the analysis of cases. LINKAGE does not contain vixed profiles or DNA profiles from convicted offenders. It does contain DNA profiles from suspects identified during the investigation of offenses. LINKAGE is manual separately from the CODIS software. Its function is to identify potential locations quickly before case completion so that these cases may be expedited.

See also Section 4.4.

2.4 CODIS Local DNA Index System (LDIS)

The CODIS Local DNA Index System (LDIS) contains forensic DNA records selected from LINKAGE as well as forensic mixture profiles, missing person profiles, and relatives of missing person profiles. LDIS may contain suspect profiles, which are not eligible for SDIS or NDIS. One function of LDIS is to search for DNA matches involving mixture profiles (not previously identified in LINKAGE) as well as those matches already identified through LINKAGE. It also serves to select eligible profiles for submission to the higher levels of the CODIS hierarchy.

See also Section 4.5.

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2.5 CODIS State DNA Index System (SDIS)

The CODIS State DNA Index System (SDIS) contains the DNA records from all local DNA laboratories within the state. SDIS is the next level after LDIS in the CODIS hierarchy. It is the state's repository of DNA identification records and is under control of state authorities. In New York, the SDIS is maintained by the New York State Police Forensic Investigation Center. In most states, including New York, SDIS has a Forensic index and a Convicted Offender index. SDIS typically serves as the central point of contact for the state and for access to NDIS.

2.6 CODIS National DNA Index System (NDIS)

The CODIS National DNA Index System (NDIS) is the FBI-administered centralized system of DNA identification records contributed by all state and local participating laboratories. NDIS is the highest level in the CODIS hierarchy and receives records from every lower level and supports the searching function of CODIS.

2.7 Next-Generation CODIS, or COBIS 6

The Next-Generation CODIF system is the analogous database system for Missing Persons cases. It also has once levels (local, state and national). It contains DNA (STR and mitochondrial) data from missing persons, unidentified remains, and relatives of missing persons. It replaced CODIS+mito in 2009.

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See also Section 7.4.

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See also Section 4.5.

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3.0 ORGANIZATION AND MANAGEMENT

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3.1 Interpreting Analyst (Qualified DNA Analyst)

- 3.1.1 The interpreting analyst has the responsibility of determining whether or not a DNA profile is eligible for entry into LINKAGE and/or CODIS. The FBI has prepared a flowchart which is available to aid in the determination of CODIS eligibility; it is available in the CODIS directory on the network.
- 3.1.2 The interpreting analyst communicates his/her determination(s) to their designated supervisor (Criminalist IV), Assistant Director (ODIS Program Manager and the CODIS support staff through the use of the appropriate DNA Profile Evaluation form or CODIS sheet found in Appendix 9.1.
- 3.1.3 It is primarily the responsibility of the interpretine analyst to compare appropriate preliminary DNA profiles to those in LINKAGE, determine if there are any local matches (either to another case or to a suspect), and expedite any needed testing. If a pending match is confirmed, the maryer must enter the appropriate data on the DNA-HITS secure website. The DNA-HITS entry must be reviewed before it can be approved and notification made.
- 3.1.4 It is the responsibility of the interpreting analyst to alert their supervisor of any CODIS-related actions on their case work. Such actions would include subsequent determination that a profile should be removed from CODIS (sample known to have comparison the victim, husband or boyfriend) or an incorrect interpretation was made so a profile must be modified. The supervisor will then alert the appropriate Assistant Director and the CODIS Program Manager. The supervisor will ensure the appropriate paperwork is filled out and provide this information to the CODIS support staff for processing.

3.2 Criminalist IIIs

3.2.1 Criminalist IIIs are responsible for entering selected DNA profiles associated with evidence into LINKAGE, based on the DNA Profile Evaluation forms or CODIS sheets prepared by the Interpreting Analyst, prior to technical review of the case. Criminalist IIIs are also responsible for entering selected DNA profiles associated with exemplars or pseudo-exemplars from suspects into LINKAGE, based on the CODIS sheets prepared by members of the X-Team, prior to technical review of the case.

This process is for the purpose of timely entry of DNA profiles into LINKAGE and is not sufficient for entry of CODIS eligible DNA profiles into LDIS.

3.0 ORGANIZATION AND MANAGEMENT

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3.2.2 Any such entry must be documented by dating and initialing the section referring to LINKAGE entry on the CODIS sheet. Since entry into LINKAGE in this manner is neither a technical review of the case, nor an administrative review of a report and supporting documentation, it is not necessary to note it on the scheduled analysis form.

3.3 Criminalist IVs

- 3.3.1 Criminalist IVs are responsible for reviewing CODIS profiles submitted with each case they review for accuracy, completeness, correct specimen identification numbers, any local matches, ensuring profiles are not from elimination sources and meet criteria for entry into CODIS. For checteviewed by Criminalist IVs only (and not Assistant Directors), the reviewing Criminalist IV is responsible for transferring appropriate DNA profiles into LINKAGE and routing the CODIS sheet to the CODIS support staff for patry into LDIS.
- 3.3.2 Criminalist IVs are responsible for notifying the NYPD designee and the appropriate DAO bureau chief after completion of the match confirmation process for local DNA matches discovered in LINKAGE. This includes ensuring that the DNA-HITS data entry has been completed.
- 3.3.3 Criminalist IVs are esponsible for communication with other laboratories and law enforcement agencies needed to investigate local, state, and national **confirmed** CODIS matches. The interpreting analyst will aid in this process.
- 3.3.4 Criminalist IVs are primarily responsible for requesting exemplars and elimination samples from victims, family members, employees of businesses or any other exemplars as needed. These requests go to the NYPD and/or the appropriate district attorney's office.

3.4 Assistant Directors

3.4.1 Assistant Directors are responsible for reviewing CODIS profiles submitted with each case they review for accuracy, completeness, correct specimen identification numbers, any local matches, ensuring profiles are not from elimination sources and meet criteria for entry into CODIS. This includes bringing any CODIS considerations related to a case that may not be apparent from the CODIS sheet to the attention of CODIS support staff.

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- 3.4.2 Assistant Directors are responsible for transferring appropriate DNA profiles into LINKAGE and routing the CODIS sheet to the CODIS support staff for entry in LDIS.
- 3.4.3 Assistant Directors are responsible for reviewing data required for match confirmations and hit notifications for local matches made in LINKAGE.

3.5 CODIS Support Staff



- 3.5.1 The CODIS support staff is responsible for reviewing the data contained in the CODIS sheet submitted with each case for completeness before entering data into LDIS. A copy of each sheet will be made and placed in the case file; the original will be kept in a binder in the CODIS area.
- 3.5.2 The CODIS support staff is responsible for performing autosearches of the database, sending the New York State SDIS a regularly-scheduled upload of forensic profiles, processing CODIS data modifications, expungements, deletions, monthly hit counting and general maintenance of the database.
- 3.5.3 The CODIS support staff is responsible for the retrieval of Forensic Biology files involved in candidate matches made through the CODIS software, evaluating candidate matches and ensuring that the appropriate agencies are notified of all confirmed matches made through the CODIS software.

Exceptions in the above are made for candidate matches involving LCN profiles and Missing Persons/Unidentified Persons profiles. For LCN candidate matches, the evaluation of the candidate match is done by a member of the LCN group, with the notification done by the CODIS support staff. For MP/UP candidate matches, both the evaluation and notification is done by a member of the Missing Persons group.

- 3.5.4 CODIS support staff is responsible for maintaining system records including all relevant paperwork, maintenance of all binders containing the CODIS sheets, CODIS user information, and all other CODIS documentation. All binders will be maintained in the CODIS area.
- 3.5.5 CODIS support staff is responsible for training system users and new CODIS staff concerning practical CODIS issues.

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3.5.6 The LDIS database is backed up automatically, by the city's network systems.

3.6 CODIS Administrator

- 3.6.1 A CODIS Administrator is a member of the CODIS staff with administrative rights as defined by the CODIS Supervisor. The CODIS Supervisor, CODIS Manager and designated members of the CODIS group as designated by the CODIS supervisor, have Administrator rights.
- 3.6.2 These rights include, but are not limited to: entering profiler into CODIS, software updates, autosearches in LDIS, keyboard searches in LDIS, deleting/modifying profiles in LDIS, user maintenance and processing uploads.

3.7 CODIS Custodian/Supervisor (Criminalist IV)

- 3.7.1 The CODIS Custodian/Supervisor is the system administrator of the laboratory's CODIS network. The CODIS Custodian is responsible for overseeing all operations of the CODIS system. This responsibility includes, but is not limited to: entering profiles into CODIS, offtware updates, user maintenance, processing uploads, evaluating candidate matches, hit notifications, oversight of CODIS computer training, quality assurance and security of DNA profile data stored in CODIS.
- 3.7.2 The CODIS Custodian/Supervisor has the authority to terminate the laboratory's participation in CODIS in the event of a problem until the reliability of the computer data can be assured.
- 3.7.3 The CODIS Custodian/Supervisor is the liaison between the Forensic Biology Department and the SDIS Custodian of the New York State Police Forensic Investigation Center.
- 3.7.4 The CODIS Custodian/Supervisor is responsible for reviewing the biweekly upload resolution, monthly hit counting and ensuring that all candidate matches have been evaluated and dispositioned.
- 3.7.5 The CODIS Custodian/Supervisor is responsible for the oversight of maintenance and filing of all paperwork required for NDIS participation such as proficiency test and audit documentation.

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- 3.7.6 The CODIS Custodian/Supervisor is responsible for supervising the CODIS support staff and ensuring that all functions associated with CODIS staff are performed in a timely manner.
- 3.7.7 The CODIS Custodian/Supervisor and the CODIS Program Manager, together, have the authority to modify or remove profiles from the database which are causing an excessive amount of spurious (false) candidate matches. Modifications could be accomplished by the addition of the obligate allele designation to one or more loci or by other methods as deened appropriate to the sample.

3.8 CODIS Program Manager (Assistant Director)

- 3.8.1 The CODIS Program Manager is responsible for the supervision of the CODIS staff.
- 3.8.2 The CODIS Program Managerus responsible for insuring the Forensic Biology Department is in compliance with the FBI Quality Assurance standards relevant to CODIS.
- 3.8.3 The CODIS Program Manager is responsible for determining if there is an acceptable need to project a keyboard search at SDIS/NDIS at the request of the NYPD or DAO

In the absence of the CODIS Program Manager, a keyboard search at SDIS/NDIS may be approved by the CODIS Custodian or a member of the management team.

3.9 Network Support Staff

- 3.9.1 Information technology specialists from DOITT, the city's computer service, are responsible for day-to-day maintenance (including regular backups) and physical and electronic security of the CODIS servers and other hardware.
- 3.9.2 Those IT staff members with access to the CODIS server must undergo the FBI security clearance process and be added to the user list as CODIS IT users. They are not authorized to enter profiles or manipulate them.

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March 24, 2010 - Initial version of section

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3.1 Interpreting Analyst (Qualified DNA Analyst)

3.1.1 The interpreting analyst has the responsibility of determining whether or not a DNA profile is eligible for entry into LINKAGE and/or CODIS. The FBI has prepared a flowchart which is available to aid in the determination of CODIS eligibility; it is available in the CODIS directory on the network.

For those cases not easily resolved through the guidance provided in the flowchart, it is important to document your reasoning for determining eligibility. The DNA Profile Evaluation Form has an additional page that should be used to document any such reasoning.

- 3.1.2 The interpreting analyst communicates his/het/deformination(s) to their designated supervisor (Criminalist IV), Assistant Director, CODIS Program Manager and the CODIS support staff through the use of the appropriate DNA Profile Evaluation Form (colloquially) known as the CODIS sheet) found in Appendix 9.1.
- 3.1.3 It is primarily the responsibility of the interpreting analyst to compare appropriate preliminary DNA profiles to hose in LINKAGE and LDIS, determine if there are any local matches (either to another case or to a suspect), and expedite any needed testing. If a pending match is confirmed, the analyst must enter the appropriate data on the DNA-1015 secure website. The DNA-HITS entry must be reviewed before it is approved and notification made.
- 3.1.4 It is the responsibility of the interpreting analyst to alert their supervisor of any CODIS related actions on their case work. Such actions would include subsequent determination that a profile should be removed from CODIS (sample known to have come from the victim, husband or boyfriend) or an incorrect interpretation was made so a profile must be modified. The supervisor will then alert the appropriate Assistant Director and the CODIS Program Manager. The supervisor will ensure the appropriate paperwork is filled out and provide this information to the CODIS support staff for processing.

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3.2 Criminalist IIIs

3.2.1 Criminalist IIIs are responsible for entering selected DNA profiles associated with evidence into LINKAGE, based on the DNA Profile Evaluation Forms prepared by the Interpreting Analyst, prior to technical review of the case. Criminalist IIIs are also responsible for entering selected DNA profiles associated with exemplars or pseudo-exemplars from suspects into LDIS, based on the DNA Profile Evaluation Forms prepared by members of the X-Team, prior to technical review of the case.

This process is for the purpose of timely entry of DNA profiles into LINKAGE and is not sufficient for entry of CODIS eligible DNA profiles into LDIS.

3.2.2 Any such entry must be documented by datas and initialing the section referring to LINKAGE and/or LDIS entry on the DNA Profile Evaluation Form. Since entry into LINKAGE and/or LDIS in this manner is neither a technical review of the case, nor an administrative review of a report and supporting documentation, it is not necessary to note it on the senedule of analysis form.

3.3 Criminalist IVs

- 3.3.1 Criminalist IVs are responsible for reviewing CODIS profiles submitted with each case they review for accuracy, completeness, correct specimen identification numbers, any local matches, ensuring profiles are not from elimination sources and meet criteria for entry into CODIS. For cases reviewed by Criminalist IVs only (and not Assistant Directors), the reviewing Criminalist IV is responsible for transferring appropriate DNA profiles into LINKAGE and routing the DNA Profile Evaluation Form to the CODIS support staff for entry into LDIS.
- 3.3.2 Criminalist IVs are responsible for notifying the NYPD designee and the appropriate DAO bureau chief after completion of the match confirmation process for local DNA matches discovered in LINKAGE and/or LDIS. This includes ensuring that the DNA-HITS data entry has been completed.
- 3.3.3 Criminalist IVs are responsible for communication with other laboratories and law enforcement agencies needed to investigate local, state, and national **confirmed** CODIS matches. The interpreting analyst will aid in this process.

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3.3.4 Criminalist IVs are primarily responsible for requesting exemplars and elimination samples from victims, family members, employees of businesses or any other exemplars as needed. These requests go to the NYPD and/or the appropriate district attorney's office.

3.4 Assistant Directors

- 3.4.1 Assistant Directors are responsible for reviewing CODIS profiles submitted with each case they review for accuracy, completeness, correct specimen identification numbers, any local matches, ensuring profiles are not from elimination sources and meet criteria for entry into CODIS. This includes bringing any CODIS considerations related to a case that may not be apparent from the DNA Profile Evaluation Form to the attention of CODIS support staff.
- 3.4.2 Assistant Directors are responsible for transferring appropriate DNA profiles into LINKAGE and routing the DNA Profile Evaluation Form to the CODIS support staff for entry in LDIS.
- 3.4.3 Assistant Directors are responsible for reviewing data required for match confirmations and hit notifications for local matches made in LINKAGE and/or LDIS.

3.5 CODIS Support Staff

- 3.5.1 The CODIS support staff is responsible for reviewing the data contained in the DNA Pionie Evaluation Form submitted with each case for completeness before entering data into LDIS. A copy of each sheet will be made and placed in the case file; the original will be kept in a binder in the CODIS area.
- 3.5.2 The CODIS support staff is responsible for performing autosearches of the database, sending the New York State SDIS a regularly-scheduled upload of forensic profiles, processing CODIS data modifications, expungements, deletions, monthly hit counting and general maintenance of the database.

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3.5.3 The CODIS support staff is responsible for the retrieval of Forensic Biology files involved in candidate matches made through the CODIS software, evaluating candidate matches and ensuring that the appropriate agencies are notified of all confirmed matches made through the CODIS software.

Exceptions to the above are made for candidate matches involving LCN profiles and Missing Persons/Unidentified Persons profiles. For LCN candidate matches, the evaluation of the candidate match is done by a member of the LCN group, with the notification done by the CODIS support staff. For VP/UP candidate matches, both the evaluation and notification is done by a member of the Missing Persons group.

- 3.5.4 CODIS support staff is responsible for maintaining system records including all relevant paperwork, maintenance of all binders containing the DNA Profile Evaluation Forms, CODIS user information, and all other CODIS documentation. All binders will be maintained in the CODIS area.
- 3.5.5 CODIS support staff is responsible for training system users and new CODIS staff concerning practical CODIS issues.
- 3.5.6 The LDIS database is backed up automatically, by the city's network systems.

3.6 CODIS Administrator

- 3.6.1 A CODIS Administrator is a member of the CODIS staff with administrative rights as defined by the CODIS Supervisor. The CODIS Supervisor, CODIS Manager and designated members of the CODIS group as designated by the CODIS supervisor, have Administrator rights.
- 3.6.2 These rights include, but are not limited to: entering profiles into CODIS, software updates, autosearches in LDIS, keyboard searches in LDIS, deleting/modifying profiles in LDIS, user maintenance and processing uploads.

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3.7 CODIS Custodian/Supervisor (Criminalist IV)

- 3.7.1 The CODIS Custodian/Supervisor is the system administrator of the laboratory's CODIS network. The CODIS Custodian is responsible for overseeing all operations of the CODIS system. This responsibility includes, but is not limited to: entering profiles into CODIS, software updates, user maintenance, processing uploads, evaluating candidate matches, hit notifications, oversight of CODIS computer training, quality assurance and security of DNA prefile data stored in CODIS.
- 3.7.2 The CODIS Custodian/Supervisor has the authority to terminate the laboratory's participation in CODIS in the event of a problem until the reliability of the computer data can be assured.
- 3.7.3 The CODIS Custodian/Supervisor is the haison between the Forensic Biology Department and the SDIS Custodian of the New York State Police Forensic Investigation Center.
- 3.7.4 The CODIS Custodian/Supervisorus responsible for reviewing the biweekly upload resolution, monthly buccounting and ensuring that all candidate matches have been evaluated and dispositioned.
- 3.7.5 The CODIS Customan Supervisor is responsible for the oversight of maintenance and filing of all puperwork required for NDIS participation such as proficiency test and audit occumentation.
- 3.7.6 The CCDIS Custodian/Supervisor is responsible for supervising the CODIS support staff and ensuring that all functions associated with CODIS staff are performed in a timely manner.
- 3.7.7 The CODIS Custodian/Supervisor and the CODIS Program Manager, together, have the authority to modify or remove profiles from the database which are causing an excessive amount of spurious (false) candidate matches. Modifications could be accomplished by the addition of the obligate allele designation to one or more loci or by other methods as deemed appropriate to the sample.

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3.8 CODIS Program Manager (Assistant Director)

- 3.8.1 The CODIS Program Manager is responsible for the supervision of the CODIS staff.
- 3.8.2 The CODIS Program Manager is responsible for insuring the Forensic Biology Department is in compliance with the FBI Quality Assurance standards relevant to CODIS.
- 3.8.3 The CODIS Program Manager is responsible for determining if there is an acceptable need to request a keyboard search at SDIS/NDIS at the request of the NYPD or DAO.

In the absence of the CODIS Program Manager, a keyboard search at SDIS/NDIS may be approved by the CODIS Custodian or a member of the management team.

3.9 Network Support Staff

- 3.9.1 Information technology specialists from DOITT, the city's computer service, are responsible for day-to-day maintenance (including regular backups) and physical and electronic security of the CODIS servers and other hardware.
- 3.9.2 Those IT staff memoers with access to the CODIS server must undergo the FBI security clearance process and be added to the user list as CODIS IT users. They are not autoxized to enter profiles or manipulate them.

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4.1 CODIS Identification Number (Specimen ID Number)

4.1.1 Each profile entered into CODIS will have a unique identifier. Only letters and numbers will be used in the description. Do not use any other spaces or any other characters, except a dash (-) when indicated below. The standardized format for entering specimen information into CODIS is as follows:

The first eight to ten characters will encompass the Forensic Biology laboratory number (last two digits of the year, followed by a dash, preceding a four or five digit case number) followed by a dash. If the specimen is thom a contract laboratory the year will be preceded by a laboratory abbreviation (Bode Technologies (BT or BTB), Cellmark Diagnostics (CD) and Genescreen (GS)).

Vouchered items: add the last three digits voucher followed by a dash.

Post mortem items: add PM followed by the item number followed by a dash.

The final set of characters will for early for sample type and identification:

Stained items (sheets, clothing, etc.): add a few (usually 4 to 6) letters that describe the item, the item number, and the stain designation followed by a dash.

For stains with differential extractions the designations below will apply to the fractions.

<u>Sexual ssault kit items</u>: the abbreviated descriptions below will be used:

Dried secretions swabs described as DS Oral swabs or smears described as OS Vaginal swabs or smears described as VS Vulva swabs or smears described as VU Cervical swabs or smears described as CS Sperm fraction described as SF Epithelial fraction described as EF Substrate/swab remains fraction described as SR Anal swabs or smears described as AS Underwear described as UW

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<u>Case type indicator</u>: the last notation is a pair of letters indicating the case type.

- **AS** assault, attempted homicide, and related cases
- **BU** burglary and related cases
- **DR** drug possession and related cases
- HO homicide cases
- MP missing and unidentified persons cases
- **RO** robbery, attempted robbery, and related cases
- **SA** sexual assault and related cases
- WE weapons possession and related cases
- AU auto theft (grand larcency auto), unauthorized use of vehicle, and related cases
- **OT** use for any case type not covered above

4.1.2 Examples

Example 1: case no: FB07-00027, oucher N123456, item #1: purple shirt, stain 1B; assault. Specimen ID number will be: 07-00022-456-PS1B-AS

Example 2: case no: FB00-1257, post mortem kit item PM 2F, vaginal swab, sperm cell fraction, honnede. Specimen ID number will be: *00-1257-PM2F-VSSF-HO*

Example 3: case no: FB08-01034, voucher P124589, item #1B: glove, scrapings, burglary. Spectnen ID number will be: 08-01034-589-GLSCR-BU

<u>Example 4</u>. Cellmark Diagnostics backlog case CD01-0001, voucher K321123, sexuel assault kit underwear stain 1A1, sperm cell fraction, sexual assault. Specimen ID number will be: *CD01-0001-123-UW1A1SF-SA*

There is a maximum limit of 24 characters for the specimen identification number in CODIS. The above specimen identification system should not be deviated from unless it is necessary to distinguish two samples.

4.1.3 Suspect profiles entered into LDIS will have specimen ID's of the form XXX-10-S0000. This radically different format is intended to prevent the CODIS team and others from placing the suspect in the wrong index where it might be accidentally uploaded.

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4.2 General Guidelines for Entering STR Profiles into CODIS (see also table at the end of this section)

- 4.2.1 Procedures for determining STR typing results are detailed in the current Forensic Biology STR manual.
- 4.2.2 All STR profiles that are CODIS eligible must undergo technical review prior to entry into LDIS. The technical review includes evaluation of associated positive and negative controls, the eligibility of the DNA profile for LDKAGE and/or CODIS, as well as ensuring that appropriate exemplars and/or elimination samples have been requested at least twice.
- 4.2.3 All 13 core STR loci must be attempted on appropriate samples in order for that sample's data to be eligible for CODIS.
- 4.2.4 A minimum of 6 core loci are necessary for entry into CODIS in order to be uploaded to SDIS. A minimum of core loci are necessary in order to be uploaded to NDIS.
- 4.2.5 The DNA result from each focus will be entered on the CODIS sheet in the form p, q for heterozygotes (in ascending order) and p, p for homozygotes (for example, TH01 6, 7 pr 6, 6).
- 4.2.6 In certain circumstances, a single obligate allele may be entered as p+. For single-source DNA profiles, this is allowable only as described in section 4.3.6b.
- 4.2.7 Forensit mixture DNA profiles shall have up to 4 alleles at a maximum of 4 core loci the '4 x 4 rule''). Any of the remaining core loci shall have no more than 2 alleles at each locus. NOTE: this means that a 2-allele mixture identified by peak imbalance *does not* count against the rule and is not considered a mixture by the CODIS software. Non-core loci (e.g. Powerplex Pentas or Identifiler D2S1338 and D19S433) *do* count for this rule.
- 4.2.8 Only DNA data derived from analysis of NDIS accepted PCR loci/systems shall be entered into CODIS. NDIS accepted PCR loci/systems are referenced in the *FBI NDIS Standards for Acceptance of DNA Data*.

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- 4.2.9 Forensic Biology Laboratory reports that contain results eligible for entry into CODIS contain a statement indicating that this information has been added to and will be maintained in the CODIS system.
- 4.2.10 Currently, profiles developed using Low Copy Number amplification techniques are not eligible for entry into NDIS. They can, however, be uploaded to NY-SDIS for searching, via the Low Copy Number Index. Samples in this SDIS Index are unmarked for any further upload (i.e. to NDIS).

4.3 Guidelines for Entering STR Profiles Derived from Mixed Samples into CODIS (see also table at the end of this section)

- 4.3.1 All mixtures refer to the situation where the Dyaprofile from the evidence is composed of alleles from more than one individual.
- 4.3.2 A minimum of six fully-deduced locingust be present in a mixture sample for the mixture profile to be eligible for entry into NDIS. As many loci and alleles as possible should be included in the profile submitted to the database.
- 4.3.3 When a locus can be only partially deduced, use of the obligate allele designator, a "+" aids in stringency searches by preventing some of the spurious moderate matches possible at mixed loci.
- 4.3.4 A locus may be designated inconclusive ("INC") on the DNA Profile Evaluation form or CODES sheet at the discretion of the interpreting analyst and their supervisor it an ambiguity exists at that locus (see section for Type II mixtures below). This locus, however, should still be used in the confirmation process once a candidate match is made.
- 4.3.5 **Type I mixture** the results are such that it is possible to determine/deduce a complete profile of a contributor at 6 or more loci. The deduced profile of the major contributor or the major component will be entered into LINKAGE and LDIS.

Only if the allele intensities are such that the minor component can clearly be deduced at six or more loci will the deduced DNA profile of the minor component be entered into LINKAGE and LDIS.

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4.3.6 **Type II mixture** - the results are such that it is not possible to determine/deduce a complete profile of a contributor at all loci; the allele intensities are such that the contributor can be deduced at some loci but not at other loci. Enter the alleles at all deduced loci. Any loci that cannot be deduced can be entered as a mixture with the obligate allele indicated on the CODIS sheet with a "+". Because of possible allele sharing, all alleles at these loci must be listed on the CODIS sheet (even if you know they belong to the victim).

The mixture loci cannot be entered into LINKAGE but with centered into LDIS. There are two options for entering partially known loci when not all of the possible alleles at that locus are confirmed.

Type II mixture – **option one** for entry of a mature locus: Enter the locus as "INC". This may be the method of choice when your profile contains good data at most of the loci, and the loss of one of two loci still leaves a profile expected to be seen in 1 in more than a trillion people.

Type II mixture – **option two** for energy of a mixture locus: If only one of the potentially two alleles of the profile at that locus can be determined (due to LCN interpretation rules) or after all attempts to get results for a clearly visible but below threshold peak have failed, enter the one known allele with a "+". This is a CODIS method of designating that "another allele may be present at this locus." The advantage of hypergone known allele over none or "INC" is that a match might be found a moderate stringency, but will prevent at least most of the spurious candidate matches which might occur if nothing at all is entered for that locus.

For example, a 10+ would match 9, 10; 10, 10; 10, 11... but would preclude anything that contained no 10 allele, for example, 9, 9; 9, 11; 9, 12... would not match, in contrast to an "INC", or no entry at that locus, which would allow any allele to appear at that locus and not be a mismatch.

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This option is only meant to enhance a limited number of loci in a profile, for instance to enable a profile with 9 loci to meet the minimum amount (10 loci) needed in order to be searched at NDIS instead of being stopped at SDIS. Certain criteria must be met and documented for the CODIS group in order to justify using this method:

- Maximum 2 loci enhanced by this method.
- A statistical significance of the profile (or deduced loci) being approximately 1 in greater than 500,000,000. A copy of the population statistics printout must be provided to the CODIS group with a DNA profile of this type.
- This is the one and only instance on a CODIS sheet when a single allele is entered in the box for that locus. The "+" must also be present.
- The interpreting analyst and/or supervisor supervisor

NOTE: Since DNA profiles developed using Low Copy Number techniques are not eligible for entry into NDIS, and are searched only at LDIS and SDIS, as indicated by the first criterion listed above, can be waived.

4.4 Entering STR Profiles into INKAGE

- 4.4.1 DNA profiles will be entered into LINKAGE by Criminalist IIIs, Criminalist IVs, or management only. DNA profiles may be entered into LINKAGE without technical review; however, at the time the case file receives technical review the previously entered DNA profiles must be checked for eligibility and accuracy.
- 4.4.2 LINKAGE will be maintained separately from the CODIS software in the LINKAGE database on the Forensic Biology network.
- 4.4.3 LINKAGE contains STR loci from STR systems on- (or previously on-) line in the Forensic Biology laboratory. LINKAGE does requires a minimum number of 6 loci to be entered, but requires non-mixture (or fully-deduced) loci only be entered.

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4.4.4 Profiles matching the victim or elimination samples (for example, a family member or a consensual sex partner) unambiguously will not be entered into LINKAGE. For a profile to be unambiguously attributed to the victim or elimination sample, an exemplar must be tested and compared to the profile in question. *It is not sufficient to make an assumption based on case information that the profile in question matches the victim or consensual sex partner.*

NOTE: DNA profiles are eligible for LINKAGE and/or LDIS only if a crime has been committed. If a case has been deemed to be unfounded by the NYPD, no DNA profile generated in that case is eligible for entry

- 4.4.5 Local suspect profiles will be entered into LINKACE and/or LDIS, unless a properly executed court order dictates otherwise concerning a specific sample. When any court order or similar paperwork a received, the OCME Legal Department must be consulted and provided a copy of the paperwork.
- 4.4.6 Non-victim DNA profiles derived from evidence that are not eligible for CODIS entry will be entered into LINKAGE (for example, a profile obtained from the clothing of a suspect).

4.5 Entering STR Profiles into DIS

- 4.5.1 CODIS eligible profiles will be entered into LDIS by CODIS software-trained staff only. The profiles entered into LDIS must fall into one of the following CODIS categories: Forensic Unknown; Forensic Mixture; Required Alleles; Low Copy Number; Suspect, Known; Missing Persons Index; the Relatives of Missing Persons index or the Unidentified Human (Remains) Index) or Other (see section 1.0 CODIS Terms and Abbreviations for definitions; for procedural guidelines on how to enter a profile into LDIS, see the *FBI CODIS Training Manual*). For a list of NDIS-approved STR PCR kits, consult the current version of *NDIS Procedures*.
- 4.5.2 Profiles matching the victim or elimination samples (for example. a family member or a consensual sex partner) unambiguously will not be entered into CODIS. For a profile to be unambiguously attributed to the victim or elimination sample, an exemplar must be tested and compared to the profile in question. *It is not sufficient to make an assumption based on case information that the profile in question matches the victim or consensual sex partner.*

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- 4.5.3 Profiles that are clearly unrelated to a case or crime will not be entered into CODIS. For example, a semen profile from a condom from which a female profile was determined and the victim is excluded as the female contributor of DNA. This will be at the discretion of the appropriate Assistant Director and the CODIS Program Manager. The determination can be aided using the CODIS *Guide to Determining What is Allowable for Entry into the Forensic Index at NDIS*.
- 4.5.4 Local suspect profiles reside in the LINKAGE system and or DIS. *They are not eligible for upload to higher levels of CODIS.*
- 4.5.5 Entry of a profile into LDIS will be documented on the CODIS sheet. A copy of the CODIS sheet will be put in the file and the original will be filed in binders in the CODIS area.
- 4.5.6 Upload of a profile to SDIS will be documented by including a printout of the CODIS Specimen Detail Report if the case file. While secondary and later profiles in a pattern are not uploaled to SDIS, the Specimen Detail Report should still be generated, as it indicates the specimen's entry into the Pattern/Other index at LDIS.
- 4.5.7 Off ladder alleles above or below the allelic ladder are entered as < (lowest allele at that locus) or > (Denest allele), respectively. The official standardized NDIS allelic ladder can be found on the CODIS website.
- 4.5.8 Off ladder addles should be entered as determined by the analysis software (e.g. an allely called as 9.1 should be entered as 9.1, not 9.x).
- 4.5.9 If a discrepancy exists on a CODIS sheet (for example, writing is not legible, reviewer's initials are missing, the specimen ID appears incorrect or is too long) the Interpreting Analyst (IA) or the reviewing Criminalist IV or Assistant Director for that sheet must resolve the discrepancy **before** the data from that sheet is entered. Specimen ID problems may be corrected by a member of the CODIS support staff. Interpretation issues should be discussed with the appropriate Assistant Director.

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4.6 Modifying or Deleting an STR Profile from CODIS

- 4.6.1 Modification of data already entered into CODIS may be due to several reasons:
 - Additional testing has been completed on the sample.
 - An interpretation error was discovered regarding the profile.
 - The profile could be improved by the addition of the obligate allele designator "+".

Once it has been determined that a profile must be modified in CODIS, a Profile Modification form (see Appendix 9.2) should be filled out and submitted to the CODIS staff for processing. The original Profile Wodification form will be maintained in the Profile Modification form bruder and a copy will be placed in the case file.

- 4.6.2 Any modification to a DNA profile previously uploaded to SDIS will be documented in the profile modification log (see Appendix 9.3).
- 4.6.3 Reasons for administrative removal/expungement might include: a profile entered is later determined to be an obmination sample, legal expungement, a determination that the profile should not have been entered into CODIS due to a user problem (for example, the IA has failed a proficiency test during the time the data was generated or a systemic laboratory problem.

Once it has been determined that a profile must be deleted from CODIS, a CODIS deletion form (see Appendix 9.4) must be filled out and submitted to the CODIS staff for processing. Unless there are time restraints surrounding the deletion (for example, in response to a court order requiring it before the next local upload; if so, an Expungement Request letter will be sent to the SDIS custodian (see Appendix 9.5)), the deletion will be processed with the next upload to SDIS.

The original form will be maintained in the Case Deletion/Expungement form binder and a copy will be placed in the case file. The deletion will also be recorded in the Upload Deletion/Expungement log (see Appendix 9.6) at the time it is processed. The deletion portion of the reconciliation report from the upload will also be printed and placed in the Case Deletion/Expungement form binder confirming that the deletion was completed.

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4.7 Routine Searches of LINKAGE and LDIS

- 4.7.1 Interpreting analysts and their supervisors will routinely compare appropriate preliminary DNA profiles to those in LINKAGE and LDIS.
- 4.7.2 LDIS autosearches will be conducted after the addition of new profiles into LDIS and before an upload to SDIS. This search will serve to ensure that no intralaboratory DNA matches were overlooked and to track local DNA hits using the CODIS system. LDIS autosearches will be performed by the CODIS staff only.
- 4.7.3 All LDIS autosearches will be conducted at moderate whigh stringency using a minimum of six loci. The default setting is moderate.
- 4.7.4 Samples with 10 or more loci will also be searched, allowing one locus to have either low-stringency or non-matching esults ("one-mismatch search").
- 4.7.5 All LDIS candidate matches will be examined. The CODIS staff will investigate any matches not already documented and ensure that all proper notifications are prepared, reviewed and made expeditiously. The CODIS group may return such matching files to the IA and supervisor who submitted the specimen, and delegate the match notifications to mem.

4.8 Uploading Profiles to SPORNDIS and Search Policies

- 4.8.1 All appropriate LDIS profiles will be uploaded into SDIS by the CODIS staff. Currently New York State local DNA laboratories upload to SDIS biweekly, with the SDIS search performed shortly thereafter. Forensic STR Index, Unidentified Human (Remains) Index and Missing Person Index profiles containing 10 or more loci are searched at both high and moderate stringency. Forensic STR Index, Unidentified Human (Remains) Index and Missing Person Index profiles containing 10 or more loci. Profiles with 6-9 loci are searched at high stringency only unless placed in the "Required Alleles" index.
- 4.8.2 LDIS profiles for upload to SDIS will be from evidentiary samples only. Under no circumstances will known human reference samples be uploaded to SDIS forensic indexes. Such profiles may be entered into the Missing Persons Index, the Relatives of Missing Persons Index or the Unidentified Human (Remains) Index) if appropriate.

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4.8.3 Only one (1) putative perpetrator profile per Forensic Biology DNA pattern will be uploaded to SDIS. Additional profiles from patterns will be placed in the Pattern/Other Index in LDIS, and will be unmarked for upload.

4.8.4 Uploads to NDIS will take place as scheduled by the SDIS custodian.

4.9 Other Searches

- 4.9.1 Only DNA profiles developed by the Department of Foreisic Biology may be compared to and entered into LINKAGE. Requests to compare other DNA profiles to LINKAGE will not be approved and are not allowed.
- 4.9.2 Keyboard searches of LDIS, SDIS, and NDS are only allowed of DNA profiles derived from evidence. Keyboard searches of DNA profiles from known individuals is not allowed.
- 4.9.3 Keyboard search requests of SDD/NDIS are addressed to the Databank coordinator. This search is requered through the DCJS Databank coordinator and is executed at the discretion of the SDIS custodian.

Keyboard search requests of LDIS are addressed to the CODIS custodian, CODIS Program Manager or the laboratory director.

- 4.9.4 There are assorted reasons a keyboard search would be requested by a laboratory. All requests must be accompanied by a Justification for Keyboard Search Request form (see Appendix 9.7).
 - **Reason #1:** The requesting laboratory wants to search a profile that does not meet the minimum loci requirements for SDIS or NDIS entry or would not be searched based upon SDIS or NDIS current search policy. Keyboard searches for this reason must be, accompanied with a documented scientific reason justifying the search (for example, apparent presence of mixtures, sample degradation or limited sample availability). Scientific justification must include but is not limited to a statistical significance of the profile (or deduced loci) being approximately 1 in greater than 500,000,000. A copy of the population statistics printout must be provided to the CODIS group with a justification of this type.

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<u>Reason #2</u>: - The requesting agency wants to search a profile before the next search in a situation where a known convicted offender is a suspect in a particular case and there is an urgency for an expedited search. The initial request from a Bureau Chief from one of the District Attorney's Offices must be submitted in written form, **must be accompanied with a valid** justification for the urgency, and it must be confirmed that the suspect in question is, in fact, in the databank. <u>This confirmation is the</u> responsibility of the requesting agency. There must also be a documented conversation with an Assistant Director and appropriate case information. Case information from the DAO must include: the obspect's full name, NYSID number, social security #, and any known duases.

The following reasons are considered valieur pency justifications by the Department of Forensic Biology to request, keyboard search to expedite a CODIS search at SDIS or NDIS:

- A suspect has been arrested for a particular case and will be released without the search. Additionally, there is no other evidence (eyewitness, fingerprints, etc.) to hold the suspect and attempts to obtain a DNA sample from the suspect have been exhausted.
- A strong investigative lead has developed a suspect in a particular case and the server will lead to an arrest. Additionally, there is no other evidence revewitness, prints, etc.) to arrest the suspect and attempts to obtain a DNA sample from the suspect have been exhausted.



Even if the DAO or NYPD can confirm a potential suspect has qualified for entry in the convicted offender databank this does not insure the sample has been collected, processed, or entered into the offender databank. Expedition of a convicted offender sample by DCJS does not have to be in response to a keyboard request. If the suspect is based on a strong investigative lead and the investigator wants to insure the corresponding convicted offender sample is in the offender databank before the next routine search they should be referred to DCJS. Investigators should always be advised to attempt to obtain a DNA sample from the suspect and submit it <u>directly</u> to Forensic Biology.

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- **Reason #3:** The requesting agency and/or the Department of Forensic Biology wants to search a profile before the next search in a situation where there is an urgency for an expedited search to attempt to identify an offender in a serious or serial crime.
- **Reason #4:** The requesting laboratory is not CODIS ready. This type of search method is performed for criminal justice agencies that do not have access to CODIS. **All requests for keyboard searches from agencies that do not have CODIS should be referred to the NYS DCJS Databank coordinator.** This will enable the requesting agency to benefit from a statewide search and avoid duplicate local searches.
- 4.9.5 Both the CODIS Custodian/Supervisor and the CODIS Program Manager must approve keyboard search requests. Disagreements between the CODIS Program Manager and the analyst, supervisor, or manager requesting a keyboard search will be resolved by the laboratory director.

Once a keyboard search request has been approved, the interpreting analyst will fill out a Forensic Biology Keyboard Search Request form (see Appendix 9.8) and forward it to the CODIS staff for processing. All keyboard search requests will be processed by the CODIS staff. If the keyboard search request is for SDIS, the CODIS supervisor windiscuss the request and case information with the DCJS Databank coordinater via telephone and fax the request form accordingly. The original request form and search results will be kept in the case folder. Keyboard search requests from outside laboratories are kept in the Keyboard Search requests binder. The interpreting analyst requesting the keyboard search will be responsible for evaluating all candidate match results from the search within T5 days of receiving the results from the CODIS staff.

- NOTE: Prior to faxing a Keyboard Search Request form to SDIS, the CODIS staff will first perform an autosearch to identify any local candidate matches.
- 4.9.6 A forensic profile may be searched at a non-CODIS databank (for example, via Interpol). See the NDIS Procedures for further information.

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4.9.7 A non-US forensic profile may be searched at NDIS upon request to the FBI and at their discretion. Such a profile may NOT be searched at LDIS.

STR result	Interpretation	CODIS sheet	Will match
7, 8, 9	deduced contributor is		
	9, 9	9,9	9. (http://stringency)
7, 8, 9	deduced contributor is		No.
	8,9	8,9	8, 9 (high stringency)
7, 8, 9	deduced contributor is	N.	
	9, Z	~0	
	(where Z is either a 7 or 8 or 5	7, 8, 9+	7, 9 or 8, 9 or 9, 9 (moderate stringency)
7, 8, 9**	deduced contributor is	INC	n/a
	9, Z	or	
	(other non-caned allele,	9+	9 plus any other allele
	possible dop out, or LCN possible faise homozygote)		(moderate stringency)

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4.1 CODIS Identification Number (Specimen ID Number)

4.1.1 Each profile entered into CODIS will have a unique identifier. Only letters and numbers will be used in the description. Do not use any other spaces or any other characters, except a dash (-) when indicated below. The standardized format for entering specimen information into CODIS is as follows:

The first eight to ten characters will encompass the Forensic Biology laboratory number (last two digits of the year, followed by a dash, preceding a four or five digit case number) followed by a dash. If the specimen is from a contract laboratory the year will be preceded by a laboratory abbreviation (Bode Technologies (BT or BTB), Cellmark Diagnostics (CD) and Genescreen (GS)).

<u>Vouchered items:</u> add the last three digits **voucher** followed by a dash.

Post mortem items: add PM followed by the item number followed by a dash.

The final set of characters will be reserved for sample type and identification:

Stained items (sheets, clothing, etc.): add a few (usually 4 to 6) letters that describe the item, the item number, and the stain designation followed by a dash.

For stains with differential extractions the designations below will apply to the fractions.

<u>Sexual ssault kit items</u>: the abbreviated descriptions below will be used:

Dried secretions swabs described as DS Oral swabs or smears described as OS Vaginal swabs or smears described as VS Vulva swabs or smears described as VU Cervical swabs or smears described as CS Sperm fraction described as SF Epithelial fraction described as EF Substrate/swab remains fraction described as SR Anal swabs or smears described as AS Underwear described as UW

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<u>Case type indicator</u>: the last notation is a pair of letters indicating the case type.

- AS assault, attempted homicide, and related cases
- **BU** burglary and related cases
- **DR** drug possession and related cases
- **HO** homicide cases
- MP missing and unidentified persons cases
- **RO** robbery, attempted robbery, and related cases
- SA sexual assault and related cases
- **WE** weapons possession and related cases
- AU auto theft (grand larceny auto), unauthorized use of vehicle, and related cases
- **OT** use for any case type not covered above
- 4.1.2 Examples

Example 1: case no: FB07-00027, oucher N123456, item #1: purple shirt, stain 1B; assault. Specimen ID number will be: 07-00022-456-PS1B-AS

Example 2: case no: FB09-1257, post mortem kit item PM 2F, vaginal swab, sperm cell fraction, honoride. Specimen ID number will be: 00-1257-PM2F-VSSF-HO

Example 3: case no: FB08-01034, voucher P124589, item #1B: glove, scrapings, burglary. Spectmen ID number will be: 08-01034-589-GLSCR-BU

<u>Example 4</u>. Cellmark Diagnostics backlog case CD01-0001, voucher K321123, sexuel assault kit underwear stain 1A1, sperm cell fraction, sexual assault. Specimen ID number will be: *CD01-0001-123-UW1A1SF-SA*

There is a maximum limit of 24 characters for the specimen identification number in CODIS. The above specimen identification system should not be deviated from unless it is necessary to distinguish two samples.

4.1.3 Suspect profiles entered into LDIS will have specimen ID's of the form XXX-10-S0000. This radically different format is intended to prevent the CODIS team and others from placing the suspect in the wrong index where it might be accidentally uploaded.

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4.2 General Guidelines for Entering STR Profiles into CODIS (see also table at the end of this section)

- 4.2.1 Procedures for determining STR typing results are detailed in the current Forensic Biology STR manual.
- 4.2.2 All STR profiles that are CODIS eligible must undergo technical review prior to entry into LDIS. The technical review includes evaluation of associated positive and negative controls, the eligibility of the DNA profile for LPKAGE and/or CODIS, as well as ensuring that appropriate exemplars and/or elimination samples have been requested at least once.
- 4.2.3 All 13 core STR loci must be attempted on appropriate samples in order for that sample's data to be eligible for CODIS.
- 4.2.4 A minimum of 6 core loci are necessary for entry into CODIS in order to be uploaded to SDIS. A minimum of 10 core loci are necessary in order to be uploaded to NDIS.
- 4.2.5 The DNA result from each focus will be entered on the DNA Profile Evaluation Form in the form p, q for heterozygotes (in ascending order) and p, p for homozygotes (for example, TH01 6, 7 or 6, 6).
- 4.2.6 In certain circumstances, a single obligate allele may be entered as p+. For single-source DNA profiles, this is allowable only as described in section 4.3.6b.
- 4.2.7 Forensit mixture DNA profiles shall have up to 4 alleles at a maximum of 4 core loci the "4 x 4 rule"). Any of the remaining core loci shall have no more than 2 alleles at each locus. NOTE: this means that a 2-allele mixture identified by peak imbalance *does not* count against the rule and is not considered a mixture by the CODIS software. Non-core loci (e.g. Powerplex Pentas or Identifiler D2S1338 and D19S433) *do* count for this rule.
- 4.2.8 Only DNA data derived from analysis of NDIS accepted PCR loci/systems shall be entered into CODIS. NDIS accepted PCR loci/systems are referenced in the *FBI NDIS Standards for Acceptance of DNA Data*.

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- 4.2.9 Forensic Biology Laboratory reports that contain results eligible for entry into CODIS contain a statement indicating that this information has been added to and will be maintained in the CODIS system.
 - 4.2.9.1 When a profile is removed from CODIS for any reason, a statement in the report must indicate that the profile was previously searched but has been removed. Depending on the timing of the removal, the statement may be in the initial report or in an additional report.
- 4.2.10 Currently, profiles developed using Low Copy Number amplification techniques are not eligible for entry into NDIS. They can, however, be uploaded to NY-SDIS for searching, via the Low Copy Number Index. Samples in this SDIS Index are unmarked for any further upload (ce to NDIS).

4.3 Guidelines for Entering STR Profiles Derived from Mixed Samples into CODIS (see also table at the end of this section)

- 4.3.1 All mixtures refer to the situation where the DNA profile from the evidence is composed of alleles from more than one individual.
- 4.3.2 A minimum of six func-deduced loci must be present in a mixture sample for the mixture profile to be engible for entry into NDIS. As many loci and alleles as possible should be included in the profile submitted to the database.
- 4.3.3 When a locus can be only partially deduced, use of the obligate allele designator, a "+" and s in stringency searches by preventing some of the spurious moderate matches possible at mixed loci.
- 4.3.4 A locus may be designated inconclusive ("INC") on the DNA Profile Evaluation form at the discretion of the interpreting analyst and their supervisor if an ambiguity exists at that locus (see section for Type II mixtures below). This locus, however, should still be used in the confirmation process once a candidate match is made.

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4.3.5 **Type I mixture** - the results are such that it is possible to determine/deduce a complete profile of a contributor at 6 or more loci. The deduced profile of the major contributor or the major component will be entered into LINKAGE and LDIS.

Only if the allele intensities are such that the minor component can clearly be deduced at six or more loci will the deduced DNA profile of the minor component be entered into LINKAGE and LDIS.

4.3.6 **Type II mixture** - the results are such that it is not possible to determine/deduce a complete profile of a contributor at all loci; the allele beconsities are such that the contributor can be deduced at some loci but not at other loci. Enter the alleles at all deduced loci. Any loci that cannot be deduced can be entered as a mixture with the obligate allele indicated on the DNA Profile Evaluation Form with a "+". Because of possible allele sharing, all affeles at these loci must be listed on the DNA Profile Evaluation Form (even K you know they belong to the victim).

The mixture loci cannot be entered into LINKAGE but will be entered into LDIS. There are two options for entering partially known loci when not all of the possible alleles at that locus are confirmed.

Type II mixture – **option one** for entry of a mixture locus: Enter the locus as "INC". This may be method of choice when your profile contains good data at most of the loci, and the loss of one or two loci still leaves a profile expected to be seen in Lin more than a trillion people.

Type II mixture – **option two** for entry of a mixture locus: If only one of the potentially two alleles of the profile at that locus can be determined (due to LCN interpretation rules) or after all attempts to get results for a clearly visible but below threshold peak have failed, enter the one known allele with a "+". This is a CODIS method of designating that "another allele may be present at this locus." The advantage of listing one known allele over none or "INC" is that a match might be found at moderate stringency, but will prevent at least most of the spurious candidate matches which might occur if nothing at all is entered for that locus.

For example, a 10+ would match 9, 10; 10, 10; 10, 11... but would preclude anything that contained no 10 allele, for example, 9, 9; 9, 11; 9, 12... would not match, in contrast to an "INC", or no entry at that locus, which would allow any allele to appear at that locus and not be a mismatch.

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This option is only meant to enhance a limited number of loci in a profile, for instance to enable a profile with 9 loci to meet the minimum amount (10 loci) needed in order to be searched at NDIS instead of being stopped at SDIS. Certain criteria must be met and documented for the CODIS group in order to justify using this method:

- Maximum 2 loci enhanced by this method.
- A statistical significance of the profile (or deduced loci) being approximately 1 in greater than 500,000,000. A copy of the population statistics printout must be provided to the CODIS group with a DNA profile of this type.
- This is the one and only instance on a DNA Profile Byaluation Form when a single allele is entered in the box for that locus The '+" must also be present.
- The interpreting analyst and/or supervisor supervisor

NOTE: Since DNA profiles developed using Low Copy Number techniques are not eligible for entry into NDIS, and are searched only at LDIS and SDIS, as indicated by the first criterion listed above, can be waived.

4.4 Entering STR Profiles into INKAGE

- 4.4.1 DNA profiles will be entered into LINKAGE by Criminalist IIIs, Criminalist IVs, or management only. DNA profiles may be entered into LINKAGE without technical review; however, at the time the case file receives technical review the previously entered DNA profiles must be checked for eligibility and accuracy.
- 4.4.2 LINKAGE will be maintained separately from the CODIS software in the LINKAGE database on the Forensic Biology network.
- 4.4.3 LINKAGE contains STR loci from STR systems on- (or previously on-) line in the Forensic Biology laboratory. LINKAGE does requires a minimum number of 6 loci to be entered, but requires non-mixture (or fully-deduced) loci only be entered.

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4.4.4 Profiles matching the victim or elimination samples (for example, a family member or a consensual sex partner) unambiguously will not be entered into LINKAGE. For a profile to be unambiguously attributed to the victim or elimination sample, an exemplar must be tested and compared to the profile in question. *It is not sufficient to make an assumption based on case information that the profile in question matches the victim or consensual sex partner.*

NOTE: DNA profiles are eligible for LINKAGE and/or LDIS only if a crime has been committed. If a case has been deemed to be unfounded by the NYPD, no DNA profile generated in that case is eligible for entry

- 4.4.5 Local suspect profiles will be entered into LINKAGE and/or LDIS, unless a properly executed court order dictates otherwise concerning a specific sample. When any court order or similar paperwork specified, the OCME Legal Department must be consulted and provided a copy of the paperwork.
- 4.4.6 Non-victim DNA profiles derived from evidence that are not eligible for CODIS entry will be entered into LINKAGE (for example, a profile obtained from the clothing of a suspect).

4.5 Entering STR Profiles into DIS

- 4.5.1 CODIS eligible profiles will be entered into LDIS by CODIS software-trained staff only. The profiles entered into LDIS must fall into one of the following CODIS categories: Forensic Unknown; Forensic Mixture; Required Alleles; Low Copy Number; Suspect, Known; Missing Persons Index; the Relatives of Missing Persons index or the Unidentified Human (Remains) Index) or Other (see section 1.0 CODIS Terms and Abbreviations for definitions; for procedural guidelines on how to enter a profile into LDIS, see the *FBI CODIS Training Manual*). For a list of NDIS-approved STR PCR kits, consult the current version of *NDIS Procedures*.
- 4.5.2 Profiles matching the victim or elimination samples (for example. a family member or a consensual sex partner) unambiguously will not be entered into CODIS. For a profile to be unambiguously attributed to the victim or elimination sample, an exemplar must be tested and compared to the profile in question. *It is not sufficient to make an assumption based on case information that the profile in question matches the victim or consensual sex partner*.

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- 4.5.3 Profiles that are clearly unrelated to a case or crime will not be entered into CODIS. For example, a semen profile from a condom from which a female profile was determined and the victim is excluded as the female contributor of DNA. This will be at the discretion of the appropriate Assistant Director and the CODIS Program Manager. The determination can be aided using the CODIS *Guide to Determining What is Allowable for Entry into the Forensic Index at NDIS*.
- 4.5.4 Local suspect profiles reside in the LINKAGE system and or DIS. *They are not eligible for upload to higher levels of CODIS.*
- 4.5.5 Entry of a profile into LDIS will be documented on the DNA Profile Evaluation Form. A copy of the DNA Profile Evaluation Form will be put in the file and the original will be filed in binders in the CODE area.
- 4.5.6 Upload of a profile to SDIS will be documented by including a printout of the CODIS Specimen Detail Report in the case file. While secondary and later profiles in a pattern are not uploaled to SDIS, the Specimen Detail Report should still be generated, as it indicates the specimen's entry into the Pattern/Other index at LDIS.
- 4.5.7 Off ladder alleles above or below the allelic ladder are entered as < (lowest allele at that locus) or > (Dignest allele), respectively. The official standardized NDIS allelic ladder can be found on the CODIS website.
- 4.5.8 Off ladder adeles should be entered as determined by the analysis software (e.g. an allely called as 9.1 should be entered as 9.1, not 9.x).
- 4.5.9 If a discrepancy exists on a DNA Profile Evaluation Form (for example, writing is not legible, reviewer's initials are missing, the specimen ID appears incorrect or is too long) the Interpreting Analyst (IA) or the reviewing Criminalist IV or Assistant Director for that sheet must resolve the discrepancy **before** the data from that sheet is entered. Specimen ID problems may be corrected by a member of the CODIS support staff. Interpretation issues should be discussed with the appropriate Assistant Director.

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4.6 Modifying or Deleting an STR Profile from CODIS

- 4.6.1 Modification of data already entered into CODIS may be due to several reasons:
 - Additional testing has been completed on the sample.
 - An interpretation error was discovered regarding the profile.
 - The profile could be improved by the addition of the obligate allele designator "+".

Once it has been determined that a profile must be modified in CODIS, a Profile Modification form (see Appendix 9.2) should be filled out and submitted to the CODIS staff for processing. The original Profile Modification form will be maintained in the Profile Modification form brock and a copy will be placed in the case file.

- 4.6.2 Any modification to a DNA profile previously uploaded to SDIS will be documented in the profile modification log (see Appendix 9.3).
- 4.6.3 Reasons for administrative removal/expungement might include: a profile entered is later determined to be an elemination sample, legal expungement, a determination that the profile should not have been entered into CODIS due to a user problem (for example, the IA has failed a proficiency test during the time the data was generated or a systemic laboratory problem.

Once it has been determined that a profile must be deleted from CODIS, a CODIS deletion form (see Appendix 9.4) must be filled out and submitted to the CODIS staff for processing). Unless there are time restraints surrounding the deletion (for example, in response to a court order requiring it before the next local upload; if so, an Expungement Request letter will be sent to the SDIS custodian (see Appendix 9.5)), the deletion will be processed with the next upload to SDIS.

The original form will be maintained in the Case Deletion/Expungement form binder and a copy will be placed in the case file. The deletion will also be recorded in the Upload Deletion/Expungement log (see Appendix 9.6) at the time it is processed. The deletion portion of the reconciliation report from the upload will also be printed and placed in the Case Deletion/Expungement form binder confirming that the deletion was completed.

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4.7 Routine Searches of LINKAGE and LDIS

- 4.7.1 Interpreting analysts and their supervisors will routinely compare appropriate preliminary DNA profiles to those in LINKAGE and LDIS.
- 4.7.2 LDIS autosearches will be conducted after the addition of new profiles into LDIS and before an upload to SDIS. This search will serve to ensure that no intralaboratory DNA matches were overlooked and to track local DNA hits using the CODIS system. LDIS autosearches will be performed by the CODIS staff only.
- 4.7.3 All LDIS autosearches will be conducted at moderate whigh stringency using a minimum of six loci. The default setting is moderate.
- 4.7.4 Samples with 10 or more loci will also be searched, allowing one locus to have either low-stringency or non-matching results ("one-mismatch search").
- 4.7.5 All LDIS candidate matches will be examined. The CODIS staff will investigate any matches not already docun enter and ensure that all proper notifications are prepared, reviewed and made expeditiously. The CODIS group may return such matching files to the IA and supervisor who submitted the specimen, and delegate the match notifications to them.

4.8 Uploading Profiles to SPORNDIS and Search Policies

- 4.8.1 All appropriate LDIS profiles will be uploaded into SDIS by the CODIS staff. Currently New York State local DNA laboratories upload to SDIS biweekly, with the SDIS search performed shortly thereafter. Forensic STR Index, Unidentified Human (Remains) Index and Missing Person Index profiles containing 10 or more loci are searched at both high and moderate stringency. Forensic STR Index, Unidentified Human (Remains) Index and Missing Person Index profiles containing 10 or more loci. Profiles with 6-9 loci are searched at high stringency only unless placed in the "Required Alleles" index.
- 4.8.2 LDIS profiles for upload to SDIS will be from evidentiary samples only. Under no circumstances will known human reference samples be uploaded to SDIS forensic indexes. Such profiles may be entered into the Missing Persons Index, the Relatives of Missing Persons Index or the Unidentified Human (Remains) Index) if appropriate.

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4.8.3 Only one (1) putative perpetrator profile per Forensic Biology DNA pattern will be uploaded to SDIS. Additional profiles from patterns will be placed in the Pattern/Other Index in LDIS, and will be unmarked for upload.

4.8.4 Uploads to NDIS will take place as scheduled by the SDIS custodian.

4.9 Other Searches

- 4.9.1 Only DNA profiles developed by the Department of Forensic Biology may be compared to and entered into LINKAGE. Requests to compare other DNA profiles to LINKAGE will not be approved and are not allowed.
- 4.9.2 Keyboard searches of LDIS, SDIS, and NDS are only allowed of DNA profiles derived from evidence. Keyboard searches of DNA profiles from known individuals is not allowed.
- 4.9.3 Keyboard search requests of SDIS/NDIS are addressed to the Databank coordinator. This search is requered through the DCJS Databank coordinator and is executed at the discretion of the SDIS custodian.

Keyboard search requests of LDIS are addressed to the CODIS custodian, CODIS Program Manager or the laboratory director.

- 4.9.4 There are assorted reasons a keyboard search would be requested by a laboratory. All requests must be accompanied by a Justification for Keyboard Search Request form (see Appendix 9.7).
 - **Reason #1:** The requesting laboratory wants to search a profile that does not meet the minimum loci requirements for SDIS or NDIS entry or would not be searched based upon SDIS or NDIS current search policy. Keyboard searches for this reason must be, accompanied with a documented scientific reason justifying the search (for example, apparent presence of mixtures, sample degradation or limited sample availability). Scientific justification must include but is not limited to a statistical significance of the profile (or deduced loci) being approximately 1 in greater than 500,000,000. A copy of the population statistics printout must be provided to the CODIS group with a justification of this type.

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<u>Reason #2</u>: - The requesting agency wants to search a profile before the next search in a situation where a known convicted offender is a suspect in a particular case and there is an urgency for an expedited search. The initial request from a Bureau Chief from one of the District Attorney's Offices must be submitted in written form, **must be accompanied with a valid justification for the urgency**, and **it must be confirmed that the suspect in question is, in fact, in the databank.** <u>This confirmation is the</u> **responsibility of the requesting agency.** There must also be a documented conversation with an Assistant Director and appropriate case information. **Case information from the DAO must include:** the suspect's full name, NYSID number, social security #, and any known allases.

The following reasons are considered valid uppercy justifications by the Department of Forensic Biology to requise a keyboard search to expedite a CODIS search at SDIS or NDIS:

- A suspect has been arrested for a particular case and will be released without the search. Additionally, there is no other evidence (eyewitness, fingerprints, etc.) to hold the suspect and attempts to obtain a DNA sample from the suspect have been exhausted.
- A strong investigative lead has developed a suspect in a particular case and the search will lead to an arrest. Additionally, there is no other evidence revewitness, prints, etc.) to arrest the suspect and attempts to obtain a DNA sample from the suspect have been exhausted.

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Even if the DAO or NYPD can confirm a potential suspect has qualified for entry in the convicted offender databank this does not insure the sample has been collected, processed, or entered into the offender databank. Expedition of a convicted offender sample by DCJS does not have to be in response to a keyboard request. If the suspect is based on a strong investigative lead and the investigator wants to insure the corresponding convicted offender sample is in the offender databank before the next routine search they should be referred to DCJS. Investigators should always be advised to attempt to obtain a DNA sample from the suspect and submit it <u>directly</u> to Forensic Biology.

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- **<u>Reason #3</u>**: The requesting agency and/or the Department of Forensic Biology wants to search a profile before the next search in a situation where there is an urgency for an expedited search to attempt to identify an offender in a serious or serial crime.
- **<u>Reason #4</u>**: The requesting laboratory is not CODIS ready. This type of search method is performed for criminal justice agencies that do not have access to CODIS. **All requests for keyboard searches from agencies that do not have CODIS should be referred to the NYS DCJS Databank coordinator.** This will enable the requesting agency to benefit from a statewide search and avoid duplicate local searches.
- 4.9.5 Both the CODIS Custodian/Supervisor and the CODIS Program Manager must approve keyboard search requests. Disagreements between the CODIS Program Manager and the analyst, supervisor, or manager requesting a keyboard search will be resolved by the laboratory director.

Once a keyboard search request has been approved, the interpreting analyst will fill out a Forensic Biology Keyboard Search Request form (see Appendix 9.8) and forward it to the CODIS staff for processing. All keyboard search requests will be processed by the CODIS staff. If the keyboard search request is for SDIS, the CODIS supervisor windiscuss the request and case information with the DCJS Databank coordinator via telephone and fax the request form accordingly. The original request form outside laboratories are kept in the case folder. Keyboard search requests from outside laboratories are kept in the Keyboard Search requests binder. **The interpreting analyst requesting the keyboard search will be responsible for evaluating all candidate match results from the search** *wither 15 days* of receiving the results from the CODIS staff.

NOTE: Prior to faxing a Keyboard Search Request form to SDIS, the CODIS staff will first perform an autosearch to identify any local candidate matches.

4.9.6 A forensic profile may be searched at a non-CODIS databank (for example, via Interpol). See the NDIS Procedures for further information.

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4.9.7 A non-US forensic profile may be searched at NDIS upon request to the FBI and at their discretion. Such a profile may NOT be searched at LDIS.

|--|

STR result	Interpretation	DNA Profile Evaluation Form	Will match
7, 8, 9	deduced contributor is		
	9,9	9,9	Ligh stringency)
7, 8, 9	deduced contributor is	Ś	
	8, 9	8,9	8, 9 (high stringency)
7, 8, 9	deduced contributor is		
	9, Z	00	
	(where Z is either a 7 or 8 or 9)	7, 8, 9+	7, 9 or 8, 9 or 9, 9 (moderate stringency)
7, 8, 9**	deduced contributor is	INC	n/a
	9, Z	or	
	(other non-called allele,	9+	9 plus any other allele
	possible drop-out, or LCN possible false homozygote)		(moderate stringency)
00			

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Only the NYPD designee(s) and the appropriate DAO's designee(s) are notified. *Do not notify Detectives or ADA's directly* - they will be notified by their superiors.

DNA matches are made using the web-based DNA-HITS application. If DNA-HITS is unavailable for > 24 hours, make notifications using a faxed notification letter (see Appendix 9.18); follow up with DNA-HITS notification when it becomes available.

Members of lab management have privileges in the program to add or delete authorized users. Case analysts have varying levels of privileges within the program. All interpreting analysts plus certain clerical and CODIS staff members have login privileges and car after match information. Supervisors, management and certain CODIS staff members have approval privileges for matches. The program will not notify a match until it has been approved.

5.1 Verifying LINKAGE/LDIS Matches

Discovering and confirming matches, and miking timely match notifications, are among the highest priority tasks done in the Department of Forensic Biology. *Any delay in any one of these steps can result in additional crimes being committed that may have been preventable.* It is not necessary to have all analyses completed or reports written, just that the required data is available for review of the match.

Match notifications are only necessary for a "cold hit" where we would be supplying information not already avalable. "Cold hit" means no one thought the cases (or suspect) were linked previously; if we were specifically asked to compare cases, or the same suspect is listed it is not a "cold hit" and this process is not required.

The following procedure should be followed when reporting local matches discovered via LINKAGE v LDIS.

In the event an analyst suspects there is a cold hit between two cases or between a case and a suspect file, their supervisor should be notified **immediately**. Expedite additional testing (including exemplars if needed) to determine if you have a true match or a fortuitous match. Additional testing includes any duplication needed to satisfy the concordance and duplication policies. Once you have confirmed the match, continue the process.

Pull the previous case(s). For a case-to-case match, compare the information available in the files: precinct, location of occurrence, description of assailant, details of the assault, etc. If any 61 forms are missing, have a supervisor arrange to get a copy. (This step is not required for NYPD project cases.)

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If any of the information in the 61 forms seems inconsistent, discuss with your supervisor.

For case-to-case matches, determine whether the matching samples were processed together:

- Evidence exam on the same date with the same analyst?
- DNA extraction and/or amplification worksheet the same date and time?

If so, see your supervisor and Assistant Director immediately.

Transfer the newly linked case to the IA from the previous case. Have your supervisor update records to reflect the new case assignment. (This step can be done after notifications, if desired.)

Fill out a DNA Profile Evaluation form listing the case(s) your case is linked to.

Enter the match(es) into DNA-HITS using the procedure in section 5.4

5.2 Verifying and Reporting SDIS Watches

With DNA matches identified at SDIS, both laboratories involved in the match have confirmation responsibilities. All matches will be resolved by the CODIS staff, with the following exceptions. Low Copy Number samples and Missing Persons cases,

Responses to all candidate matches must be immediate. The final disposition of the candidate much to the SDIS custodian must be reported no later than 30 days after receiving the match report.

5.2.A Verifying and Reporting SDIS Convicted Offender Matches

The CODIS staff will print out the Candidate Match Detail Reports from the CODIS system along with a Match Inventory list (a summary list of all the cases involved in the candidate matches) and retrieve the corresponding files.

Each candidate match report and corresponding file must be reviewed to confirm whether or not the two profiles indeed match. The analyst reviewing the file must fill out a Candidate Match Confirmation checklist (see Appendix 9.9).

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If any modifications to the DNA profile are needed, a Profile Modification form must be filled out by the analyst reviewing the data (see section 4.6), and submitted to the CODIS group. It is not necessary to wait for the profile to be modified to continue in the confirmation process.

After the match confirmation checklist is filled out and if the profiles match, a NYS DNA Databank Candidate Match Confirmation form (see Appendix 9.10) must be filled out and completed. This form communicates to DCJS and the Databank coordinator the case information, and that the candidate match is, in fact, a true match. Therefore, **one** NYS DNA Databank condidate Match Confirmation form for **every** confirmed candidate match listed on the Match Inventory must be completed. The NYS DNA Databank Candidate Match Confirmation form is then faxed to DCJS.

If a candidate match to a convicted offender is NOT a true match, a notation to that effect is made on the Candidate Match Detail Report and that sheet is filed in the case file. Also, the candidate match is immediately dispositioned in the CODIS system as "No Match" and NYS DCJS is sent a list of the "No Match" cases from that search's results.

If a candidate match to another laboratory's forensic profile is not a match, the other laboratory should be contacted by fax or email to confirm they have reached the same conclusion. File such correspondence in the case file.

Upon receipt of the NYS DNA Databank Candidate Match Confirmation forms from our laboratory, and upon receipt of confirmation of the offender sample from the NYS DNA Databank coordinator, DCJS will release the convicted offender's name, via fax, in the form of a DCJS Match Letter (see the current version of the *New York State COmbined DNA Index System Procedures*). This letter will contain the name of the offender, any aliases, the NYSID # and convicted offender's current location.

Enter the match(es) into DNA-HITS using the procedure later in section 5

If the confirmed match has linked a convicted offender to an unsolved case, the investigating agency must obtain an exemplar from the convicted offender and submit to the laboratory for retesting prior to proceeding to trial. This information is located on the DCJS Match Letter that is available to the District Attorney's office upon request.

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The DCJS Match Letter should be used by the DAO to obtain the court order authorizing the collection of the exemplar. The Department of Forensic Biology will perform testing on the exemplar to replicate the DNA match of the offender to the forensic sample(s) and to testify in court to the match. Questions from the DAO regarding offender information, offender blood draws, etc. should be directed to DCJS. Analysis of the exemplar by Forensic Biology is generally not necessary for grand jury proceedings. This analysis, however, is necessary before trial.

5.2.B Verifying and Reporting SDIS Forensic Matches

The CODIS staff will print out the Candidate Match Detail Reports from the CODIS system along with a Match Inventory fist of a summary list of all the cases involved in the candidate matches) and extrieve the corresponding files.

Each candidate match report and corresponding file must be reviewed to confirm the profile data sent to SDIS is accurate. The analyst reviewing the file must fill out a Candidate Match Confirmation checklist.

If any modifications to the DNA profile are needed, a Profile Modification form must be filled out by the unaryst reviewing the data (see section 4.6). It is not necessary to wait forme profile to be modified to continue in the confirmation process.

After the data is reviewed, the other laboratory involved in the match must then be notified via telephone, fax or email and the match (or non match) verified. Both latoratory's case numbers and ORI numbers are on the Match Detail Report and or me Match Inventory list. The contact information for all CODIS laboratories can be found on the CJIS-WAN. Standard case contact protocol should be followed to document any correspondence or conversations.

If it is verified the candidate match is a non-match, the process stops here. All case contacts should be documented on the checklist accordingly.

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If it is verified to be a true match, information regarding the cases must be exchanged. The CODIS DNA Match Data Request and Response form (see Appendix 9.11) is faxed to the other laboratory. This form facilitates the exchange of information. Information on this form, if available, should include:

- Contact information for your submitting police agency.
- Contact information for your laboratory.
- Laboratory and police identification numbers (Forensic Biology and complaint numbers).
- Whether the case is solved (i.e. by DNA).
- Suspect information (for example, name, NYSID * has he/she been tested at our lab, etc.).
- General case information (for example, day Coccurrence, type of crime, etc.)
- If the case with the match at SDIS is on the local pattern, information regarding both/all should be provided to the other laboratory.

Upon receipt of the response from the other laboratory, the match is confirmed. This form documents that the can lick match between the two laboratories was acknowledged, each laboratory has finished their review process, both laboratories are confirming the match and that case information has been exchanged.

Enter the match (2), into DNA-HITS using the procedure in section 5.4

5.3 Verifying and Reporting NDIS Matches

With DNA matches identified at NDIS, both laboratories involved in the match have confirmation responsibilities. All NDIS matches will be resolved by the CODIS staff.

Responses to all candidate matches must be immediate. The final disposition of the candidate match to the NDIS custodian must be reported no later than 30 days after receiving the match report.

5.3.A Verifying and Reporting NDIS Convicted Offender Matches

The CODIS staff will print out the Candidate Match Detail Reports from the CODIS system along with a Match Inventory list (or a summary list of all the cases involved in the candidate matches) and retrieve the corresponding files.

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Each candidate match report and corresponding file must be reviewed to confirm whether or not the two profiles indeed match. The analyst reviewing the file must fill out a Candidate Match Confirmation checklist.

If any modifications to the DNA profile are needed, a Profile Modification form must be filled out by the analyst reviewing the data (see section 4.6), and submitted to the CODIS group. It is not necessary to wait for the profile to be modified to continue in the confirmation process.

After the data is reviewed, the other laboratory involved in me match must then be notified via telephone, fax or email and the match (or non match) verified. Both laboratory's case numbers and ORI numbers are on the Match Inventory list. The contact information for all CODIS laboratories can be found on the CJIS-WAN. Standard case contact protocol should be followed to document any correspondence or conversations.

If it is verified the candidate match is a non-match, the process stops here. All case contacts should be documented on the checklist accordingly.

If it is verified to be a true match, information regarding the cases must be exchanged. The CODIS ONA Match Data Request and Response form is faxed to the offender laboratory. This form facilitates the exchange of information. Information on this form, if available, should include:

- Contact information for your submitting police agency.
- Contact information for your laboratory.
- Laboratory and police identification numbers (for example, FB#, complaint nc., etc.).
- Whether the case is solved (i.e. by DNA).
- Suspect information (for example, name, NYSID #, has he/she been tested at our lab, etc.).
- General case information (for example, date of occurrence, type of crime, etc.).
- If the case with the match at SDIS is one of a local pattern, information regarding both/all should be provided to the other laboratory.

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Upon receipt of the CODIS DNA Match Data Request and Response form from our laboratory, and upon the offender laboratory's confirmation of the offender sample, the match is confirmed. The offender laboratory will release the convicted offender's name, via fax, in the form of a match letter. This letter will contain the name of the offender, any aliases, the State ID #, current location, and usually their SS#.

Enter the match(es) into DNA-HITS using the procedure in section 5.4

If the confirmed match has linked a convicted offender to an unsolved case, the investigating agency must obtain an exemplar from the convicted offender and submit to the laboratory for retesting prior to proceeding to trial. This information is located on the match letter that is forwarded to the District Attorney's office. The match letter should be used by the DAO to be the district of authorizing the collection of the exemplar. The Department of Forensic Biology will perform testing on the exemplar to replicate the DNA match of the offender to the forensic sample(s) and to testify in court to the match. Questions from the DAO regarding offender information, offender blood draws, etc. should be directed to the agency contact information given on the CODIS DNA Match Data Request and Response form. Analysis of the exemptar by the Department of Forensic Biology is generally not necessary for grand jury proceedings. This analysis, however, is necessary before trial.

5.3.B Verifying and Reporting NDIS Forensic Matches

The COLLS staff will print out the Candidate Match Reports from the CODIS system along with a Match Inventory list (a summary list of all the cases involved in the candidate matches) and retrieve the corresponding files.

Each candidate match report and corresponding file must be reviewed to confirm the profile data sent to NDIS is accurate. The analyst reviewing the file must fill out a Candidate Match Confirmation checklist.

If any modifications to the DNA profile are needed, a Profile Modification form must be filled out by the analyst reviewing the data (see section 4.6), and submitted to the CODIS group. It is not necessary to wait for the profile to be modified to continue in the confirmation process.

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After the data is reviewed, the other laboratory involved in the match must then be notified via telephone, fax or email and the match (or non match) verified. Both laboratory's case numbers and ORI numbers are on the Match Inventory list. The contact information for all CODIS laboratories can be found on the CJIS-WAN. Standard case contact protocol should be followed to document any correspondence or conversations.

If it is verified the candidate match is a non-match, the process stops here. All case contacts should be documented on the checklist accordingly.

If it is verified to be a true match, information regarding the cases must be exchanged. The CODIS DNA Match Data Request and Response form is faxed to the other laboratory. This form facilitates the exchange of information. Information on this form, if available, should include:

- Contact information for your subliciting police agency.
- Contact information for your laboratory.
- Laboratory and police identification numbers (for example, FB#, complaint no., etc.).
- Whether the case is solver (i.e. by DNA).
- Suspect information (tor example, name, NYSID #, has he/she been tested at our laboratory, etc.)
- General case intramation (for example, date of occurrence, type of crime, etc.).
- If the care with the match at SDIS is one of a local pattern, information regarding both/all should be provided to the other laboratory.

Upon receipt of the response from the other laboratory, the match is confirmed. This form documents that the candidate match between the two laboratories was acknowledged, each laboratory has finished their review process, both laboratories are confirming the match and that case information has been exchanged.

Enter the match(es) into DNA-HITS using the procedure in section 5.4

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5.4 Making notifications using DNA-HITS

NOTE: If a new match (case-to-case, case-to-suspect or case-to-offender) is identified to a pattern that pre-dated DNA-HITS, the *previous matches* must be entered into DNA-HITS *prior* to the new match. In the Notes section, make reference to the previous match letters, including match letter number as well as the date of the original notification.

- Step 1: Using the internet, go to the DNA-HITS program. Change the drop-down menu to "OCME", then login using your OCME user name and password.
- Step 2: Click on "Create New Local Hit" tab in the upper right hand corner.
- Step 3: Using the drop-down menu, select the appropriate match type.
- Step 4: Enter the case numbers for the new match and click on "Search".
- NOTE: For notifications on a new case in an existing pattern, the two cases entered here should be the new case and the **first case** of the pattern. The first case is generally the one whose DNA profile is represented in CODIS; see a supervisor or a member of the CODIS group if unsure which case is the first case.
- Step 5: Using the drop-dover menu, select the appropriate search type (usually LINKAGE for local matches). If this is not done, all the information will be lost and will have to be reentered.

If one of the cases was involved in a previous DNA-HITS match, information for that case will be entered automatically. If both cases are new to DNA-HITS, all fiends marked in yellow are required to be entered. In addition, enter information into fields corresponding to information generally included in the match letter, such as date of occurrence etc. NOTE: be careful in using the drop-down menus; make sure what you select is what stays selected by moving the cursor off of the drop-down menu and clicking.

Step 6: For the 'Criminalist' section, if the analyst assigned (the IA for the cases) is not on the drop-down list, deselect 'Select' and manually type in the analysts last and first names; use normal capitalization.

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- Step 7: Click on "Get Approval". If any red error messages appear, fix the problem and click on "Get Approval" again. Once there are no errors, the screen will return to the "Create New Entry" mode and inform you that you have successfully entered a match.
- Step 8: Have the cases reviewed by a Criminalist IV and/or Assistant Director.
- Step 9: Have a Criminalist IV or Assistant Director approve the match in DNA-HITS. Once approved, the Criminalist IV or Assistant Director valueceive a DNA-HITS confirmatory email from DNAHITS@cityhall.org.
- Step 10: Print out the DNA-HITS email confirmation and Nace in each file.

Step 11: Forward the DNA Profile Evaluation formed the CODIS group in-box.

5.5 Organization of CODIS Paperwork in Fit

<u>Left side of file</u>: if all paperwork was properly completed and photocopied, the left side of the file should contain:

- Forensic Biology, Cellmark, Bode or Genescreen report
- DNA Profile Evaluation form (CODIS sheet) copy
- Specimen Detail Report printout from computer
- Candidate Match Detail Report printout from computer
- Candidate Mach Confirmation checklist original
- Candidate Match Confirmation form copy
- DCJS Mech Letter copy faxed by DCJS
- DNA-HITS confirmation email printout from email (CODIS staff does not need a copy)

Revision History:

March 24, 2010 - Initial version of section

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Only the NYPD designee(s) and the appropriate DAO's designee(s) are notified. *Do not notify Detectives or ADA's directly* - they will be notified by their superiors.

DNA matches are made using the web-based DNA-HITS application. If DNA-HITS is unavailable for > 24 hours, make notifications using a faxed notification letter (see Appendix 9.18); follow up with DNA-HITS notification when it becomes available.

Members of lab management have privileges in the program to add or delete authorized users. Case analysts have varying levels of privileges within the program. All interpreting analysts plus certain clerical and CODIS staff members have login privileges and car after match information. Supervisors, management and certain CODIS staff members have approval privileges for matches. The program will not notify a match until it has been approved.

5.1 Verifying LINKAGE/LDIS Matches

Discovering and confirming matches, and mixing timely match notifications, are among the highest priority tasks done in the Department of Forensic Biology. *Any delay in any one of these steps can result in additional crimes being committed that may have been preventable.* It is not necessary to have all analyses completed or reports written, just that the required data is available for review of the match.

Match notifications using Dro-HITS are necessary for the following types of matches:

"cold hits" between cases

"cold hits" between a case and a suspect (exemplar or pseudo-exemplar) "warm hits" between a case and a suspect (exemplar or pseudo-exemplar)

"Cold hit" treans no one thought the cases (or suspect) were linked previously. "Warm hits" are the opposite: previously thought to have been linked, and DNA is simply confirming this. "Warm hits" between a case and a suspect are reported using the "Case to Known Suspect or Arrestee" function within DNA-HITS. Notification of "warm hits" between cases is done via the report, not via DNA HITS.

In general, the match notifications reported via DNA-HITS is applicable to cases that have a clean, informative forensic DNA profile (single-source or deduced) attributable to a putative perpetrator.

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The following procedure should be followed when reporting local matches discovered via LINKAGE or LDIS.

In the event an analyst suspects there is a cold hit between two cases or between a case and a suspect file, their supervisor should be notified **immediately**. Expedite additional testing (including exemplars if needed) to determine if you have a true match or a fortuitous match. Additional testing includes any duplication needed to satisfy the concordance and duplication policies. Once you have confirmed the match, continue the process.

Pull the previous case(s). For a case-to-case match, compare the information available in the files: precinct, location of occurrence, description of assailant, details of the assault, etc. If any 61 forms are missing, have a supervisor around to get a copy. (This step is not required for NYPD project cases.)

If any of the information in the 61 forms see its meonsistent, discuss with your supervisor.

For case-to-case matches, determine whener the matching samples were processed together:

- Evidence exam on the same date and/or by the same analyst?
- DNA extraction and/or amplification worksheet with the same date and time?

If so, see your supervisor and Assistant Director immediately.

Transfer the newly linked case to the IA from the previous case. Have your supervisor update records to reflect the new case assignment. (This step can be done after notifications, if desired.)

Fill out a DNA Profile Evaluation form listing the case(s) your case is linked to.

Enter the match(es) into DNA-HITS using the procedure in section 5.4.

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5.2 Verifying and Reporting SDIS Matches

With DNA matches identified at SDIS, both laboratories involved in the match have confirmation responsibilities. All matches will be resolved by the CODIS staff, with the following exceptions: Low Copy Number samples and Missing Persons cases,

Responses to all candidate matches must be immediate. The final disposition of the candidate match to the SDIS custodian must be reported no later than 30 days after receiving the match report.

5.2.A Verifying and Reporting SDIS Convicted Offender Matches

The CODIS staff will print out the Candidar Match Detail Reports from the CODIS system along with a Match Inventory list (a summary list of all the cases involved in the candidate matches) and retrieve the corresponding files.

Each candidate match report and corresponding file must be reviewed to confirm whether or not the two profiles indeed match. The analyst reviewing the file must fill out a Candidate Match Confirmation checklist (see Appendix 9.9).

If any modifications on the DNA profile are needed, a Profile Modification form must be filled out of the analyst reviewing the data (see section 4.6), and submitted to the CODIS group. It is not necessary to wait for the profile to be modified to continue in the confirmation process.

After the match confirmation checklist is filled out and if the profiles match, a NYS DNA Databank Candidate Match Confirmation form (see Appendix 9.10) must be filled out and completed. This form communicates to DCJS and the Databank coordinator the case information, and that the candidate match is, in fact, a true match. Therefore, **one** NYS DNA Databank Candidate Match Confirmation form for **every** confirmed candidate match listed on the Match Inventory must be completed. The NYS DNA Databank Candidate Match Confirmation form is then transmitted to DCJS by fax or other electronic means.

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If a candidate match to a convicted offender is NOT a true match, a notation to that effect is made on the Candidate Match Detail Report and that sheet is filed in the case file. Also, the candidate match is immediately dispositioned in the CODIS system as "No Match" and NYS DCJS is sent a list of the "No Match" cases from that search's results.

If a candidate match to another laboratory's forensic profile is not a match, the other laboratory should be contacted by fax or email to confirm they have reached the same conclusion. File such correspondence in the case file.

Upon receipt of the NYS DNA Databank Candidate Watch Confirmation forms from our laboratory, and upon receipt of confirmation of the offender sample from the NYS DNA Databank coordinator, DUS will release the convicted offender's name, via fax followed by USPS, in the form of a DCJS Match Letter (see the current version of the *New York State Combined DNA Index System Procedures*). This letter will contain the name of the offender, any aliases, the NYSID # and convicted offender's current location.

Enter the match(es) into DNA-MITS using the procedure in section 5.4

If the confirmed match has linked a convicted offender to an unsolved case, the investigating agency must obtain an exemplar from the convicted offender and submit to the laboratory for retesting prior to proceeding to trial. This information is located on the DCJS Match Letter that is available to the District Attorneys' offices upon request.

The DCIS Match Letter should be used by the DAO to obtain the court order authorizing the collection of the exemplar. The Department of Forensic Biology will perform testing on the exemplar to replicate the DNA match of the offender to the forensic sample(s) and to testify in court to the match. Questions from the DAO regarding offender information, offender blood draws, etc. should be directed to DCJS. Analysis of the exemplar by Forensic Biology is generally not necessary for grand jury proceedings. This analysis, however, is necessary before trial.

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5.2.B Verifying and Reporting SDIS Forensic Matches

The CODIS staff will print out the Candidate Match Detail Reports from the CODIS system along with a Match Inventory list (or a summary list of all the cases involved in the candidate matches) and retrieve the corresponding files.

Each candidate match report and corresponding file must be reviewed to confirm the profile data sent to SDIS is accurate. The analyst reviewing the file must fill out a Candidate Match Confirmation checklist.

If any modifications to the DNA profile are needed, a Profile Modification form must be filled out by the analyst reviewing the data (see section 4.6). It is not necessary to wait for the profile to be modified to continue in the confirmation process.

After the data is reviewed, the other laboratory involved in the match must then be notified via telephone, fax or email and the match (or non match) verified. Both laboratory's case numbers and ORI numbers are on the Match Detail Report and on the Match Inventory list. The contact information for all CODIS laboratories can be found on the CJIS-WAN. Standard case contact protocol should be followed to document any correspondence or conversations.

If it is verified the candidate match is a non-match, the process stops here. All case contacts should be documented on the checklist accordingly.

If it is verified to be a true match, information regarding the cases must be exchanged. The CODIS DNA Match Data Request and Response form (see Appendix 9.11) is transmitted to the other laboratory by fax or other electronic means. This form facilitates the exchange of information. Information on this form, if available, should include:

- Contact information for your submitting police agency.
- Contact information for your laboratory.

Laboratory and police identification numbers (Forensic Biology and complaint numbers).

- Whether the case is solved (i.e. by DNA).
- Suspect information (for example, name, NYSID #, has he/she been tested at our lab, etc.).

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- General case information (for example, date of occurrence, type of crime, etc.)
- If the case with the match at SDIS is one of a local pattern, information regarding both/all should be provided to the other laboratory.

Upon receipt of the response from the other laboratory, the match is confirmed. This form documents that the candidate match between the two laboratories was acknowledged, each laboratory has finished their review process, both laboratories are confirming the match and that case information has been exchanged.

Enter the match(es) into DNA-HITS using the procedure in section 5.4

5.3 Verifying and Reporting NDIS Matches

With DNA matches identified at NDIS, both aboratories involved in the match have confirmation responsibilities. All NDIS matches will be resolved by the CODIS staff.

Responses to all candidate matches must be immediate. The final disposition of the candidate match to the NDIS custodian must be reported no later than 30 days after receiving the match report.

5.3.A Verifying and Reporting NDIS Convicted Offender Matches

The CODIS staff will print out the Candidate Match Detail Reports from the CODIS system along with a Match Inventory list (or a summary list of all the cases involved in the candidate matches) and retrieve the corresponding files.

Each candidate match report and corresponding file must be reviewed to confirm whether or not the two profiles indeed match. The analyst reviewing the file must fill out a Candidate Match Confirmation checklist.

If any modifications to the DNA profile are needed, a Profile Modification form must be filled out by the analyst reviewing the data (see section 4.6), and submitted to the CODIS group. It is not necessary to wait for the profile to be modified to continue in the confirmation process.

After the data is reviewed, the other laboratory involved in the match must then be notified via telephone, fax or email and the match (or non match) verified. Both laboratory's case numbers and ORI numbers are on the Match Inventory list. The contact information for all CODIS laboratories can be found on the CJIS-

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WAN. Standard case contact protocol should be followed to document any correspondence or conversations.

If it is verified the candidate match is a non-match, the process stops here. All case contacts should be documented on the checklist accordingly.

If it is verified to be a true match, information regarding the cases must be exchanged. The CODIS DNA Match Data Request and Response form is transmitted to the offender laboratory by fax or other electronic means. This form facilitates the exchange of information. Information on this form, if available, should include:

- Contact information for your submitting price agency.
- Contact information for your laboratory.
- Laboratory and police identification numbers (for example, FB#, complaint no., etc.).
- Whether the case is solved (i.c. by DNA).
- Suspect information (for example, name, NYSID #, has he/she been tested at our lab, etc.).
- General case information for example, date of occurrence, type of crime, etc.).
- If the case with the match at SDIS is one of a local pattern, information regarding both 21 should be provided to the other laboratory.
- When available, include any known aliases of the offender/suspect if the case is solved, because the offender/suspect may be in the other database under a different name.

Upon receipt of the CODIS DNA Match Data Request and Response form from our laboratory, and upon the offender laboratory's confirmation of the offender sample, the match is confirmed. The offender laboratory will release the convicted offender's name, via fax, in the form of a match letter. This letter will contain the name of the offender, any aliases, the State ID #, current location, and usually their SS#.

Enter the match(es) into DNA-HITS using the procedure in section 5.4

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If the confirmed match has linked a convicted offender to an unsolved case, the investigating agency must obtain an exemplar from the convicted offender and submit to the laboratory for retesting prior to proceeding to trial. This information is located on the match letter that is forwarded to the District Attorney's office. The match letter should be used by the DAO to obtain the court order authorizing the collection of the exemplar. The Department of Forensic Biology will perform testing on the exemplar to replicate the DNA match of the offender to the forensic sample(s) and to testify in court to the match. Questions from the DAO regarding offender information, offender blood draws, etc. should be directed to the agency contact information given on the CODIS DNA Match Data Request and Response form. Analysis of the exemplar by the Department of Forensic Biology is generally not necessary for grand jury proceeding. This analysis, however, is necessary before trial.

5.3.B Verifying and Reporting NDIS Forensic Matches

The CODIS staff will print out the Candidate Match Reports from the CODIS system along with a Match Inven ory list (a summary list of all the cases involved in the candidate matches) and retrieve the corresponding files.

Each candidate match report and corresponding file must be reviewed to confirm the profile data sent o NDIS is accurate. The analyst reviewing the file must fill out a Candidate Match Confirmation checklist.

If any modifications to the DNA profile are needed, a Profile Modification form must be alled out by the analyst reviewing the data (see section 4.6), and submitted to the CODIS group. It is not necessary to wait for the profile to be modified to continue in the confirmation process.

After the data is reviewed, the other laboratory involved in the match must then be notified via telephone, fax or email and the match (or non match) verified. Both laboratory's case numbers and ORI numbers are on the Match Inventory list. The contact information for all CODIS laboratories can be found on the CJIS-WAN. Standard case contact protocol should be followed to document any correspondence or conversations.

If it is verified the candidate match is a non-match, the process stops here. All case contacts should be documented on the checklist accordingly.

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If it is verified to be a true match, information regarding the cases must be exchanged. The CODIS DNA Match Data Request and Response form is transmitted to the other laboratory by fax or other electronic means. This form facilitates the exchange of information. Information on this form, if available, should include:

- Contact information for your submitting police agency.
- Contact information for your laboratory.
- Laboratory and police identification numbers (for example, FB#, complaint no., etc.).
- Whether the case is solved (i.e. by DNA).
- Suspect information (for example, name, NYSID #, has he/she been tested at our laboratory, etc.).
- General case information (for example, tate of occurrence, type of crime, etc.).
- If the case with the match at SDI, is one of a local pattern, information regarding both/all should be provided to the other laboratory.

Upon receipt of the response from the other laboratory, the match is confirmed. This form documents that the candidate match between the two laboratories was acknowledged, each laboratory has finished their review process, both laboratories are confirming the match and that case information has been exchanged.

Enter the watch (es) into DNA-HITS using the procedure in section 5.4

5.4 Making notifications using DNA-HITS

NOTE: If a new match (case-to-case, case-to-suspect, case-to-known suspect or arrestee, or case-to-offender) is identified to a pattern that pre-dated DNA-HITS, the *previous matches* must be entered into DNA-HITS *prior* to the new match. In the Notes section, make reference to the previous match letters, including match letter number as well as the date of the original notification.

Step 1: Using the internet, go to the DNA-HITS program. Change the drop-down menu to "OCME", then login using your OCME user name and password.

Step 2: Click on "Create New Local Hit" tab in the upper right hand corner.

Step 3: Using the drop-down menu, select the appropriate match type.

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Step 4: Enter the case numbers for the new match and click on "Search".

- NOTE: For notifications on a new case in an existing pattern, the two cases entered here should be the new case and the **first case** of the pattern. The first case is generally the one whose DNA profile is represented in CODIS; see a supervisor or a member of the CODIS group if unsure which case is the first case. If one or more of the cases in the pattern are older than 2006, previous matches/hits may have been reported using a faxed hit letter only. If so the old matches must be entered into DNA-HITS retroactively (state in the comments that 'this notification was previously made by fax on [date], and is being entered now to complete the pattern in DNA-HITS').
- Step 5: Using the drop-down menu, select the appropriate search type (usually LINKAGE for local matches). If this is not sone, all the information will be lost and will have to be reentered.

If one of the cases was involved in a previous DNA-HITS notification, information for that case will be entered automatically. If both cases are new to DNA-HITS, all fields marked it yellow are required to be entered. When available, the date of occurrence, 61 number and the voucher number **must** be entered. The exceptions are PM samples (no voucher number); backlog project cases (no 61 number and sometimes no date of occurrence); and the occasional Biotracks case (no or partial 61 number). NOTE: be careful in using the dropdown menus; make sure what you select stays selected by moving the cursor off of the drop-down menu and clicking elsewhere to deactivate the drop-down.

Step 6: For the Criminalist' section, if the analyst assigned (the IA for the cases) is not on the drop-down list, deselect 'Select' and manually type in the analyst's last and first names; use normal capitalization. If the analyst assigned to a case is no longer at the lab, list the Criminalist IV or Assistant Director who reviewed it, in that order of preference. Should neither of them be available, consult CODIS staff or a supervisor regarding analyst assignment.

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Step 7: Click on "Get Approval". If any red error messages appear, fix the problem and click on "Get Approval" again. Once there are no errors, the screen will return to the "Create New Entry" mode and inform you that you have successfully entered a match.

- Step 8: Have the cases reviewed by a Criminalist IV and/or Assistant Director.
- Step 9: Have a Criminalist IV or Assistant Director approve the marchin DNA-HITS. Once approved, the Criminalist IV or Assistant Director will receive a DNA-HITS confirmatory email from DNAHITS@cityhall.org.
- Step 10: Print out the DNA-HITS email confirmation and blace in each file.

Step 11: Forward the DNA Profile Evaluation former the CODIS group in-box.

5.5 Organization of CODIS Paperwork in Files

<u>Left side of file</u>: if all paperwork was properly completed and photocopied, the left side of the file should contain:

- Forensic Biology, Cellmark, Bode or Genescreen report
- DNA Profile Evaluation form (formerly known as the CODIS sheet) copy
- Specimen Detail-Report printout from computer
- Candidate Match Detail Report printout from computer
- Candidate March Confirmation checklist original
- Candidate Match Confirmation form copy

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- DCJS Macci Letter copy faxed by DCJS (or comparable form from another state)
- DNA-HITS confirmation email printout from email (CODIS staff does not need a copy)

6.0	CASE DISPOSITION AND HIT COUNTING

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6.1 **Case Disposition**

- 6.1.1 After the completion of all notifications, the CODIS staff will follow up on the disposition of all DNA matches notified during the month. This information is obtained from the NYPD designee.
- 6.1.2 Depending on information given about each case, each DNA match is dispositioned as one of the following three: Forensic Hit, Offender Hit, Investigative Information or Conviction Match (see section). CODIS Terms and Abbreviations for definitions).
- Other dispositions that may be used are: Pending offender Duplicate, User 6.1.3 Defined 1, 2, 3 or No Match (see section 1.0 Cours and Abbreviations for definitions). ~

6.2 **Hit Counting**

- Hit statistics or hit counting is a requirement for participation in the CODIS 6.2.1 program. These statistics are used to track the effectiveness of the program and the successes of the laboratories. The problem: how to give credit to all participants without inslating the total number of hits (for example, if 2 local laboratories link there as through a hit at State, both local laboratories and the state laboratory all want to claim hits - a total of three hits - when only one hit occurred).
- Solution: Int counting tracks two metrics in CODIS: the number of investigations 6.2.2 aidel (or 'IAs') by CODIS and the number of hits made by CODIS (see section 1.0 CODIS Terms and Abbreviations for definitions).

Investigations Aided: The primary metric is the number of investigations aided. The number of investigations aided is a better measure of CODIS program performance than the number of hits since the effectiveness of CODIS is ultimately measured by the crime it helps solve.

Hits: The secondary metric is the number of hits made by CODIS. Counting the number of hits gives laboratories credit for their investment in CODIS.

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6.2.3 <u>Rules of Hit Counting</u>:

<u>Rule #1</u>: The level in the CODIS hierarchy (GDIS, SDIS, NDIS) at which the hit occurs gets credit for the hit.

<u>Rule #2</u>: A single hit may aid more than one investigation. A hit linking five separate crimes is still only one hit. However, for each case assisted, the laboratory gets credited one "investigation aided" (IA)

<u>Rule #3</u>: An investigation may be aided only once - Offerer hits take priority over Forensic hits.

6.2.4 Scenario examples and Corresponding Scorected

Scenario 1:	On Day #1, OCME uses CODIS to discover a match between two previously unlinked cases.
Scorecard:	1 forensic hit (FH) 2 investigations aided (IA)
	On Day #2, a new case is submitted to OCME and CODIS matches
	it to the two cases linked on Day #1.
Scorecard:	1 forensic htt, 1 investigation aided
Scenario 2:	On Day #3, SDIS at Albany links a case from Westchester to a case at the OCME (neither case has been previously aided).
Scorecard	forensic hit for Albany (FH), 1 investigation aided for
	Westchester, 1 investigation aided for OCME, 1 investigation
· ري ا	aided in another laboratory for Westchester (IA_s), 1 investigation
5	aided in another laboratory for OCME, 1 forensic hit at SDIS for
X	Westchester (FH_s) and 1 forensic hit at SDIS for OCME
	we schester (FH_s) and T for easily init at SDIS for OCME
Scenario 3:	On Day #4, a new case from OCME matches a convicted offender
<u>beenario 5</u> .	from NJSP (hit occurred at NDIS).
с I	
Scorecard:	1 offender hit for NDIS, 1 offender hit at NDIS for NJSP (OH_n) , 1
	offender hit at NDIS for OCME, 1 investigation aided for OCME

Scenario 4:

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On Day #5, a new case from OCME matches a new case at NJSP

Scorecard:	(hit occ). S, 1 invo	estigatio	on aideo	l for O(MF 1	
Scorecuru.	investig (FH _n), 1	gation a 1 forens state fo	ided for sic hit a or OCM	r NJSP, t NDIS 1E (IA _n)	1 forent for NJS	sic hit a P, 1 inv	t NDIS estigati	for OC on aide	d in
<u>Scenario 5</u> :		a convic		e three C ender at					
Scorecard:	1 offend	der hit f		any, 1 of	ffender	hit at S	DIS for	OCME	, no
	investig	vations	aided		N'U				
		5							
Example score	C			oveSsc	cenarios	:			
Example score Match Date	C			ove Ssc FHn	cenarios OHs	: OHn	IAs	IAn	OHI
-	ecard for	COCMI	E for ab	<u>N</u>			IAs	IAn	OHI
Match Date	ecard for	OCMI	E for ab	<u>N</u>			IAs	IAn	OHI
Match Date Day #1	ecard for FH	OCMI	E for ab	<u>N</u>			IAs 1	IAn	OHI
Match Date Day #1 Day #2	ecard for FH	OCMI	E for ab	<u>N</u>				IAn	OHI
Match Date Day #1 Day #2 Day #3	ecard for FH	OCMI	E for ab	<u>N</u>		OHn		IAn	OHI

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Hit counting statistics in the form of a CODIS Hit Counting Scorecard (see 6.2.5 Appendix 9.12) are to be submitted to the SDIS custodian and DCJS no later than the 7th day of each month. The SDIS custodian forwards state information to the NDIS custodian. In addition to tracking CODIS hits, the number of non-suspect cases that enter the Department of Forensic Biology each month are also tracked iber of. .ber of. and reported to the SDIS custodian and DCJS. NYPD Backlog cases are treated as non-suspect cases and reported in addition to the number of non-suspect Forensic Biology cases.

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6.1 Case Disposition

- 6.1.1 After the completion of all notifications, the CODIS staff will follow up on the disposition of all DNA matches notified during the month. This information is obtained from the NYPD designee.
- 6.1.2 Depending on information given about each case, each DNA match is dispositioned as one of the following three: Forensic Hit, Offender Hit, Investigative Information or Conviction Match (see section). CODIS Terms and Abbreviations for definitions).
- 6.1.3 Other dispositions that may be used are: Pending offender Duplicate, User Defined 1, 2, 3 or No Match (see section 1.0 (2010) Terms and Abbreviations for definitions).
- 6.1.4 In Next Generation (NG) CODIS additional dispositions that may be used are: ID confirmed, ID pending, Waiting for More Data, Maternal Relative (see section 1.0 CODIS Terms and Abbreviations for definitions).

6.2 Hit Counting

6.2.1 Hit statistics or hit counting is a requirement for participation in the CODIS program. These statistics are used to track the effectiveness of the program and the successes of the laboratories. The problem: how to give credit to all participants without initiating the total number of hits (for example, if 2 local laboratories link there cases through a hit at State, both local laboratories and the state laboratory(all want to claim hits - a total of three hits - when only one hit occurred).

There is currently no hit counting required by NDIS for matches occurring within NGCODIS.

Solution: hit counting tracks two metrics in CODIS: the number of investigations aided (or 'IAs') by CODIS and the number of hits made by CODIS (see section 1.0 CODIS Terms and Abbreviations for definitions).

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<u>Investigations Aided</u>: The primary metric is the number of investigations aided. The number of investigations aided is a better measure of CODIS program performance than the number of hits since the effectiveness of CODIS is ultimately measured by the crime it helps solve.

<u>Hits</u>: The secondary metric is the number of hits made by CODIS. Counting the number of hits gives laboratories credit for their investment in CODIS.

6.2.3 <u>Rules of Hit Counting</u>:

orecard:

<u>Rule #1</u>: The level in the CODIS hierarchy (GDIS, SDI), ND(S) at which the hit occurs gets credit for the hit.

<u>Rule #2</u>: A single hit may aid more than one investigation. A hit linking five separate crimes is still only one hit. However, for each case assisted, the laboratory gets credited one "investigation aided" (IA)

<u>Rule #3</u>: An investigation may be aided only once - Offender hits take priority over Forensic hits.

6.2.4 Scenario examples and corresponding Scorecard:

<u>Scenario 1</u>: On ay #1, OCME uses CODIS to discover a match between two previously unlinked cases.

Scorecard, forensic hit (FH), 2 investigations aided (IA)

The provide the two cases is submitted to OCME and CODIS matches to the two cases linked on Day #1. 1 forensic hit, 1 investigation aided

On Day #3, SDIS at Albany links a case from Westchester to a case at the OCME (neither case has been previously aided). 1 forensic hit for Albany (FH), 1 investigation aided for Westchester, 1 investigation aided for OCME, 1 investigation aided in another laboratory for Westchester (IA_s), 1 investigation aided in another laboratory for OCME, 1 forensic hit at SDIS for Westchester (FH_s) and 1 forensic hit at SDIS for OCME

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	<u>Scenario 3</u> :		•	new cas			matches	s a conv	victed of	ffender
	Scorecard:	1 offer	nder hit	it occurr for NDI t NDIS f	S, 1 off	ender h				
							U			
	<u>Scenario 4</u> :		•	new cas		OCME	matches	s a new	case at	NJSP
	Scorecard:	1 forei	nsic hit	for NDI	S, 1 inv					>
		investi	gation : 1 forer	aided for	t NJSP, t NDIS	1 foren for NIS	sic hit a $P = 1$ in x	t NDIS estimati	for OC on aide	ME d in
				for OCM						
		state fo	or NJSI			.0				
	Scenario 5:	On Da	y #6, oi	ne of the	three	CME ¢	aŝes lin	ked on	Days 1	and 2
		match now so		icted offe	en der at	SDIS	Albany), all th	ree case	s are
	Scorecard:			for Alb	ny, 1 o	ffender	hit at S	DIS for	OCME	E, no
		investi	igations	aided						
	F 1	1.0			\mathbf{x}					
	Example scor	ecard fo	or QCM	E for ab	ove 5 so	cenarios	:			
			$\overline{\boldsymbol{\chi}}$		r T	1		TA	TA	OIII
	Match Date		IA	Firths	FHn	cenarios OHs	OHn	IAs	IAn	OHI
	Match Date		$\overline{\boldsymbol{\chi}}$		r T	1		IAs	IAn	OHI
	Match Date		$\overline{\boldsymbol{\chi}}$		r T	1		IAs	IAn	OHI
	Match Date		$\overline{\boldsymbol{\chi}}$		r 	1		IAs 1	IAn	OHI
	Match Date Day #1 Day #2		× 14 201 1	CFHs	r 	1			IAn	OHI
	Match Date Day #1 Day #2 Day #3 Day #4 Day #5		IA 201 1	CFHs	r 	1	OHn		IAn	OHI
	Match Date Day #1 Day #2 Day #3 Day #4 Day #5		IA 2011 1 1	CFHs	FHn	1	OHn			OHI
	Match Date Day #1 Day #2 Day #3 Day #4 Day #5		IA 2011 1 1 1	CFHs	FHn	OHs	OHn			OHI
CT.	Match Date Day #1 Day #2 Day #3 Day #4 Day #5		IA 2011 1 1 1 1 0	I I	FHn 1	OHs	OHn	1	1	
ARCE	Match Date Day #1 Day #2 Day #3 Day #4 Day #5		IA 2011 1 1 1 1 0	I I	FHn 1	OHs	OHn	1	1	

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6.2.5 Hit counting statistics in the form of a CODIS Hit Counting Scorecard (see Appendix 9.12) are to be submitted to the SDIS custodian and DCJS no later than the 7th day of each month. The SDIS custodian forwards state information to the NDIS custodian. In addition to tracking CODIS hits, the number of non-suspect cases that enter the Department of Forensic Biology each month are also tracked. and reported to the SDIS custodian and DCJS. NYPD Backlog cases are treated as non-suspect cases and reported in addition to the number of non-suspect

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7.1 Users

- 7.1.1 Users are defined as personnel who have login access to the CODIS system and/or qualified DNA analysts who are responsible for producing the DNA profiles stored in NDIS. Categories include CODIS Analyst, Non-Host User, and CODIS IT User.
- 7.1.2 The Designated State Official is responsible for collecting all information from participating laboratories within the state, maintaining conits and forwarding required documentation to the FBI.
- 7.1.3 In the Department of Forensic Biology a Qualified DNA Analyst is defined as an Interpreting Analyst who is a Criminalist II onlygter title meeting the FBI Director's Quality Assurance Standards. The Department of Forensic Biology will add and remove users using the guidelines established by the FBI in the *NDIS Operational Procedures Manual* and forward the required documentation to the Designated State Official.
- 7.1.4 Users are required to complete the Annual Review of DNA Records Acceptable at NDIS. This computer-based raining serves to define and clarify the types of DNA records that are acceptable at NDIS. This is a Federal requirement for participation in the CoDIS program. In the Department of Forensic Biology, a CODIS Administrated will ensure that each user completes the training and quiz annually. The certificate from the quiz is printed to confirm that each user has received the annual reminder and understands and will abide by what DNA data is accepted at NDIS. These completed annual reminders will be maintained by the CODIS staff in binders and available for inspection upon request. These certificates are forwarded to the New York State CODIS Administrator. Failure to comply with this requirement may result in suspension of the Department of Forensic Biology's CODIS rights.
- 7.1.5 All paper records regarding CODIS users are maintained by the CODIS staff in binders and are available upon request.

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7.2 Adding a User to NDIS

- 7.2.1 To add a user to NDIS, the Designated State Official will send a letter to the NDIS custodian requesting the addition. The Department of Forensic Biology is responsible for forwarding to the Designated State Official the following documentation for each user being added:
 - FD-484: Privacy Act explanation.
 - FD-258: Fingerprint (10 print) card; two copies.
 - FD-816: Background Data Information form.
 - CODIS User Information form (see Appendix 9.13)
 - External Proficiency Testing Document for each Qualified DNA Analyst (see Appendix 9.14).
- 7.2.2 The start date for each new user is upor intification by the SDIS custodian of each new user approval.

7.3 Removing a User From NDIS

7.3.1 There are two ways to remove a user from NDIS:

<u>A Stop Date is set for the user</u>: this allows previous data from the user to remain in the system, but no further data will be accepted - this is the method the Department of Forensic Biology currently uses

<u>User identification is deleted</u>: this will delete some or all data associated with the user, including any profiles entered or modified by that user.

- 7.3.2 The Designated State Official will request the removal of a user if any of the following conditions occur:
 - The user may leave employment at a participating laboratory or a change of duties makes it inappropriate to continue access to NDIS
 - An NDIS user may fail a periodic security check and the FBI's rejection of the security check would require the State to remove the user
 - There may be a problem with the data associated with the user, either because the user has received unsatisfactory ratings in external proficiency tests or because data was falsified. Removal of the user may be initiated by either the State or the FBI.

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- 7.3.3 The stop date should be set to within 20 working days of when/if any of the above situations occur.
- 7.3.4 Request to remove a user should be submitted to the Designated State Official in written form stating a recommendation regarding all data associated with the user (see Appendix 9.15).

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8.0 QUALITY ASSURANCE/QUALITY CONTROL					
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8.1 **Proficiency Testing**

- 8.1.1 Proficiency testing will be conducted as detailed in the *Department of Forensic Biology's Administrative Manual.*
- 8.1.2 Proficiency test documentation will be maintained and provided annually to NDIS as required by the *NDIS Operational Procedures Manual*. A Qualified DNA Analyst External Proficiency Testing form is saved electronically for each analyst in the CODIS directory of the network. These forms are filed out annually and forwarded to the SDIS Custodian no later than the date designated by the NYS SDIS Administrator. Failure to comply with this requirement may result in suspension of Forensic Biology's CODIS rights.
- 8.1.3 Problems related to proficiency testing will be addressed as detailed in the Department of Forensic Biology's Administrative Manual.

8.2 Audits

- 8.2.1 Audits of the laboratory with the conducted as detailed in the *Department of Forensic Biology's Administrative Manual.*
- 8.2.2 Audits test documentation will be maintained and provided annually to NDIS as required by the *NDIS Operational Procedures Manual*. Audit documentation will be provided yearly to the SDIS custodian for submission to the NDIS custodian in the form of a Laboratory Audit Certification accompanied with a letter signed by the Laboratory Director (see Appendix 9.16).
- 8.2.3 The Department of Forensic Biology and its CODIS program will be audited as required by "*The Quality Assurance Standards for DNA Testing Laboratories and Convicted Offender DNA Databasing Laboratories*," the national standards issued by the Director of the FBI.

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8.3 9947A And Other Positive and Negative Control Monitoring

- 8.3.1 9947A and other applicable positive control STR profiles will be compared to the appropriate positive control profile(s) at the time the data is analyzed.
- 8.3.2 Negative controls will be examined at the time the data is analyzed.
- 8.3.3 A Positive Control Certification letter (see Appendix 9.17) will be sent to the SDIS custodian annually as required by the New York State Combined DNA Index System Procedures.

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9.0 ENTERING PROFILES INTO LINKAGE

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The alleles in LINKAGE are organized in Cofiler and Profiler Plus order. Therefore, there are two separate methods to enter profiles into LINKAGE, depending on the allele order.

- 9.1 To enter DNA profiles into LINKAGE organized in Cofiler and Profiler Plus order:
 - A. Open the LINKAGE database
 - B. Hit "F9" to enter edit mode
 - C. While at the top of the database, hit "insert" to get a blank lipe
 - D. In the appropriate fields, type in the
 - 1) Case number either FB case number or NYPD popert case number
 - 2) V# "1" unless part of a pattern; otherwise "2" for the second victim, etc. Use "S" for a materine suspect, "1" for a non-matching suspect.
 - 3) DNA alleles (no commas, see 93 below)
 - 4) Pattern designation, if applicable
 - 5) "E" for evidence, "S" for suspect's exemplar, "P" for suspect's pseudo-exemplar
 - 6) Victim name first and last names if a person, or name of business if not
 - 7) Suspect name, if known
 - 8) Date of incident from complaint form, lab request, or the date the rape kit was collected
 - 9) Precinct number if known, otherwise "M," "K," "Bx,"
 "Q" or "R" based on the storage number for NYPD projects
 - 10) (fan evidence profile matches a suspect, enter "True" here
 - 11) The date is automatically entered
 - 12) Leave the LDIS field blank
 - E. Using the Tab or arrows, leave the record this causes your newly-entered DNA profile to be added to LINKAGE; if desired, hit "F9" again to lock the database
- 9.2 To enter DNA profiles typed in Identifiler into LINKAGE:
 - A. Open the form **LINKAGE ID data entry** either by double-clicking on it (found in the same directory as LINKAGE) or by using File/Open/Form within Paradox and navigating to that directory.
 - B. Hit "F9" to enter edit mode

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9.0 ENTERING PROFILES INTO LINKAGE

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- 9.3 Allele Entry

Alleles must be entered properly!

- 9.3.1 For autosomal loci, enter one allele for homozygotes; "allele 1," space, "allele 2" for heterozygotes (no commas, no extra spaces). Amelogenin is entered either as XX or XY.
- 9.3.2 For "new" alleles, use "12.x" etc. for off-ladder alleles, use "<6" and ">30" etc. for alleles larger or smaller than the allelic ladder.

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9.3.3 If you do not have both alleles (i.e., in a deduced partial profile) leave blank. Do not type in "**", "inc", "NEG", "+", or a single allele if you think the true profile may be heterozygous.

9.4 Completion

- 9.4.1 Once the DNA profile has been entered, the database will automatically sort itself the profile into the proper location. If the profile does not sort, and the words "key violation" appear on the top or the bottom of the screen, a duplicate profile may exist. Move your curser over to the V# field and type in "x" instead.
- 9.4.2 Use "Ctrl-Z" to zoom to the case number you just entered and check the accuracy of your entry. If necessary, change the "x" in the V# field to the next victim number. Use "Ctrl-A" to move to the next instance of that number, if necessary.
- 9.4.3 On the LDIS/LINKAGE Case Evaluation Form, date and initial that the DNA profile was entered into LINKAGE.
- 9.4.4 Sorting is based on the Cofiler-Profiler Plus loci. If the DNA profile is incomplete, the sorting may not find matches. A query may be used to locate any potential matches. For DNA profiles that are also destined for LDIS, matches missed in LEINAGE will be found during the LDIS autosearch performed by the CODIS group prior to each upload.

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