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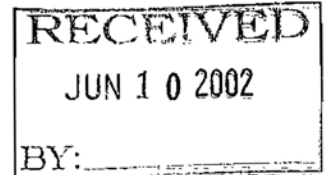
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June 5, 2002

HIGHLY CONFIDENTIAL
ATTORNEY CLIENT COMMUNICATION
VIA FIRST CLASS MAIL

Michael T. McKibben
Chairman & Chief Executive Officer
LEADER TECHNOLOGIES LLC
921 Eastwind Drive
Suite 118
Westerville, OH 43081

Re: LLNL-LEADER CRADA




Dear Mike:

Pursuant to our meeting on May 31, 2002, please find enclosed herewith a copy of the final executed CRADA between Leader Technologies and the Lawrence Livermore National Laboratory. I am by copy of this letter forwarding a copy of the same to General Freeze and Kevin Kelso for their files.

As always, if you have any questions or require additional information, please do not hesitate to contact me at 202.296.8484.

Yours truly,

THE CHANDLER LAW FIRM CHARTERED


By: _____
Professor James P. Chandler
Managing Principal

cc: General James E. Freeze
C. Kevin Kelso, Esq.

JPC:kec
Encl.
0308-0101 et al.

STEVENSON-WYDLER (15 USC 3710)
COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT

Between

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

and

LEADER TECHNOLOGIES, LLC

For

RAPIDLY DEPLOYABLE SECURITY SYSTEM

LLNL Case No. TC-2030-01

Lawrence Livermore National Laboratory
University of California, Livermore, CA 94551
Industrial Partnerships & Commercialization
December 19, 2001

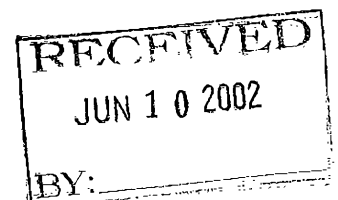


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STEVENSON-WYDLER (15 USC 3710)
COOPERATIVE RESEARCH AND DEVELOPMENT
AGREEMENT (hereinafter CRADA) NO. TC-2030-01

between

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

under its U.S. Department of Energy Contract
No. W-7405-ENG-48

and

LEADER TECHNOLOGIES, LLC

for

RAPIDLY DEPLOYABLE SECURITY SYSTEM

This CRADA is between THE REGENTS OF THE UNIVERSITY OF CALIFORNIA (hereinafter referred to as The Regents), a corporation organized and existing under the laws of the State of California and having its statewide administration address at 1111 Franklin Street, 12th Floor, Oakland, California 94607-5200, and LEADER TECHNOLOGIES, LLC (hereinafter referred to as the Participant), a corporation having its principal place of business at Spectrum Commerce Center, 921 Eastwind Drive, Suite 118, Westerville, OH 43081. Both The Regents and the Participant to this Agreement are hereinafter jointly referred to as the "Parties."

The Regents is entering into this CRADA under the National Competitiveness Technology Transfer Act of 1989 (15 USC 3710) and the terms of its Contract No. W-7405-ENG-48 with the United States Department of Energy (DOE) for the operation of the Lawrence Livermore National Laboratory (LLNL). Work to be performed by The Regents' employees is expected to be at the LLNL facility, owned by the DOE, at 7000 East Avenue, Livermore, California 94550.

Article I. Definitions

- A. "Government" means the United States of America and agencies thereof.
- B. "DOE" means the Department of Energy, an agency of the United States of America.
- C. "Contracting Officer" means the DOE employee administering The Regents' DOE contract.
- D. "Generated Information" means information produced in the performance of this CRADA.
- E. "Proprietary Information" means information which embodies (i) trade secrets or (ii) commercial or financial information which is privileged or confidential under the Freedom of Information Act (5 USC 552 (b)(4)), either of which is developed at private expense outside of this CRADA and which is marked as Proprietary Information.
- F. "Protected CRADA Information" means Generated Information which is marked as being Protected CRADA Information by a Party to this CRADA and which would have been Proprietary Information had it been obtained from a non-federal entity.
- G. "Subject Invention" means any invention of The Regents or Participant conceived or first actually reduced to practice in the performance of work under this CRADA.
- H. "Intellectual Property" means Patents, copyrights, Trademarks and Mask Works, Protected CRADA Information and other forms of comparable property rights protected by Federal Law and other foreign counterparts.
- I. "Trademark" means a distinctive mark, symbol, or emblem used in commerce by a producer or manufacturer to identify and distinguish its goods or services from those of others.

- J. "Service Mark" means a distinctive word, slogan, design, picture, symbol or any combination thereof, used in commerce by a person to identify and distinguish its services from those of others.
- K. "Mask Work" means a series of related images, however fixed or encoded, having or representing the predetermined, three-dimensional pattern of metallic, insulating, or semiconductor material present or removed from the layers of a semiconductor chip product; and in which series the relation of the images to one another is that each image has the pattern of the surface of one form of the semiconductor chip product (17 USC 901(a)(2)).
- L. "Background Intellectual Property" means the Intellectual Property rights in the items identified by the Parties in Appendix D, Background Intellectual Property, which were in existence prior to or are first produced outside of this CRADA, except that in the case of inventions in those identified items, the inventions must have been conceived outside of this CRADA and not first actually reduced to practice under this CRADA to qualify as Background Intellectual Property. Licensing of Background Intellectual Property, if agreed to by the Parties, shall be the subject of separate licensing agreements between the Parties. Background Intellectual Properties are not Subject Inventions.
- M. "Trade Secrets" means that information as defined in 18 USC 1832, 1839 (1996).

Article II. Statement of Work

Appendix A, Statement of Work, is hereby incorporated into this CRADA by reference.

Article III. Funding & Costs

- A. The total estimated project cost is Four Hundred Twenty-Six Thousand Nine Hundred Eighteen Dollars (\$426,918). The Participant's estimated in-kind contribution is Three Hundred Eighteen Thousand Dollars (\$318,000). The Participant's estimated funds-in contribution is One Hundred Five Thousand Seven Hundred Forty-Six Dollars (\$105,746). The Government's estimated

contribution, in the form of a waiver of the Federal Administrative Charge, is Three Thousand One Hundred Seventy-Two Dollars (\$3,172), which would otherwise be payable by the Participant.

- B. Neither Party shall have an obligation to continue or complete performance of its work at a contribution in excess of its estimated contribution as contained in Article III, Paragraph A (above), including any subsequent amendment.
- C. Each Party agrees to provide at least thirty (30) days notice to the other Party if the actual cost to complete performance will exceed its estimated cost.
- D. Advance funding sufficient to finance ninety (90) days of work shall be paid by the Participant before the work shall commence. Sufficient advance funds shall be provided to maintain a continuous ninety (90) days of advance funding during the life of the project. Failure to provide such advance funding may be cause for CRADA termination.
- E. The effective date of this CRADA shall be the date on which it is signed by the last of the Parties hereto. The work to be performed under this CRADA shall be completed within twenty-one (21) weeks from the effective date.

Article IV. Personal Property

All tangible personal property produced or acquired under this CRADA shall become the property of the Participant or the Government depending upon whose funds were used to obtain it. Such property is identified in Appendix A, Statement of Work. Personal Property shall be disposed of as directed by the owner at the owner's expense. All jointly funded property shall be owned by the Government.

Article V. Disclaimer

THE GOVERNMENT, THE PARTICIPANT, AND THE REGENTS MAKE NO EXPRESS OR IMPLIED WARRANTY AS TO THE CONDITIONS OF THE RESEARCH OR ANY INTELLECTUAL PROPERTY, GENERATED INFORMATION, OR

PRODUCT MADE OR DEVELOPED UNDER THIS CRADA, OR THE OWNERSHIP, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OF THE RESEARCH OR RESULTING PRODUCT. NEITHER THE GOVERNMENT, THE PARTICIPANT, NOR THE REGENTS SHALL BE LIABLE FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES ATTRIBUTED TO SUCH RESEARCH OR RESULTING PRODUCT, INTELLECTUAL PROPERTY, GENERATED INFORMATION, OR PRODUCT MADE OR DEVELOPED UNDER THIS CRADA.

Article VI. Product Liability

Participant indemnifies the Government and The Regents for all damages, costs and expenses, including attorney's fees, arising from personal injury or property damage occurring as a result of the making, using or selling of a product, process or service by or on behalf of the Participant, its assignees or licensees, which was derived from the work performed under this CRADA. In respect to this Article, neither the Government nor The Regents shall be considered assignees or licensees of the Participant, as a result of reserved Government and The Regents' rights. The indemnity set forth in this paragraph shall apply only if Participant shall have been informed as soon and as completely as practical by The Regents and/or the Government of the action alleging such claim and shall have been given an opportunity, to the maximum extent afforded by applicable laws, rules, or regulations, to participate in and control its defense, and The Regents and/or Government shall have provided all reasonably available information and reasonable assistance requested by Participant. No settlement for which Participant would be responsible shall be made without Participant's consent unless required by final decree of a court of competent jurisdiction.

Article VII. Obligations as to Proprietary Information

- A. If Proprietary Information is orally disclosed to a Party, it shall be identified as such, orally, at the time of disclosure and confirmed in a written summary thereof, appropriately marked by the disclosing party, within thirty (30) days as being Proprietary Information.

- B. Each Party agrees to not disclose Proprietary Information provided by another Party to anyone other than the CRADA Participant and The Regents without written approval of the providing Party, except to Government employees who are subject to the statutory provisions against disclosure of confidential information set forth in the Trade Secrets Act (18 USC 1905) and (18 USC 1831 *et seq.*(1996)).
- C. All Proprietary Information shall be returned to the provider thereof at the conclusion of this CRADA at the provider's expense.
- D. All Proprietary Information shall be protected for a period of five (5) years unless and until such Proprietary Information: (1) shall become publicly know without the fault of the recipient, (2) shall come into recipient's possession without breach of any of the obligations set forth herein by the recipient, or (3) shall be independently developed by recipient's employees who did not have access to such Proprietary Information. Nothing herein is intended to be a waiver by Leader or the Regents of the applicability of the Federal Trade Secrets Law (18 USC 1831 *et seq.*).

Article VIII. Obligations as to Protected CRADA Information

- A. Each Party may designate and so mark as Protected CRADA Information, as defined in Article I, any Generated Information produced by its employees, and with the agreement of the other Party, designate any Generated Information produced by the other Party's employees. All such designated Protected CRADA Information shall be appropriately marked.
- B. For a period of three (3) years from the date Protected CRADA Information is produced, the Parties agree not to further disclose such Information except:
 - (1) as necessary to perform this CRADA;
 - (2) as provided in Article XI;

- (3) as requested in writing by the DOE Contracting Officer to be provided to other DOE facilities for use only at those DOE facilities with the same protection in place;
 - (4) to existing or potential licensees, affiliates, customers or suppliers of the Parties in support of commercialization of the technology with the same protection in place. Disclosure of Participant's Protected CRADA Information under this subparagraph shall only be done with Participant's consent; or
 - (5) as mutually agreed in writing by the Parties in advance.
- C. The obligations of Paragraph B (above) shall end sooner for any Protected CRADA Information which shall: (1) become publicly known without fault of either Party, (2) shall come into a Party's possession without breach by that Party of the obligations of Paragraph B (above), or (3) shall be independently developed by a Party's employees who did not have access to the Protected CRADA Information.

Article IX. Rights in Generated Information

The Parties agree that they shall have no obligations of non-disclosure or limitations on their use of, and the Government shall have unlimited rights in, all Generated Information, all Protected CRADA Information after the expiration of the period set forth in Article VIII, Paragraph B above and information provided to the Government or The Regents under this CRADA which is not marked as being copyrighted (subject to Article XIII) or as Protected CRADA Information (subject to Article VIII B) or Proprietary Information (subject to Article VII, Paragraph B), or which is not an invention disclosure which may later be the subject of a U.S. or foreign patent application.

Article X. Export Control

THE PARTIES UNDERSTAND THAT MATERIALS AND INFORMATION RESULTING FROM THE PERFORMANCE OF THIS CRADA MAY BE SUBJECT TO EXPORT CONTROL LAWS, AND THAT EACH PARTY IS RESPONSIBLE FOR ITS OWN COMPLIANCE WITH SUCH LAWS.

Article XI. Reports and Abstracts

A. The Parties agree to produce the following deliverables:

- (1) an initial abstract suitable for public release at the time the CRADA is approved by DOE;
- (2) other abstracts (final when work is complete, and others as substantial changes in scope and dollars occur);
- (3) a final report, upon completion or termination of this CRADA, to include a list of Subject Inventions;
- (4) a semi-annual signed financial report of the Participant's in-kind contributions to the project;
- (5) other topical/periodic reports where the nature of research and magnitude of dollars justify; and
- (6) computer software in source and executable object code format as defined within the Statement of Work or elsewhere within the CRADA documentation.

B. It is understood that The Regents has the responsibility to provide the above information at the time of its completion to the DOE Office of Scientific and Technical Information.

C. Participant agrees to provide the above information to The Regents to enable full compliance with Paragraph B of this Article.

- D. It is understood that The Regents and the DOE have a need to document the long-term economic benefit of the cooperative research being done under this agreement. Therefore, the Participant acknowledges a responsibility to respond to reasonable requests, during the term of this CRADA and for a period of three (3) years thereafter from The Regents for pertinent information.

Article XII. Pre-Publication Review

- A. The Parties anticipate that their employees may wish to publish technical developments and/or research findings generated in the course of this CRADA. On the other hand, the Parties recognize that an objective of this CRADA is to provide business advantages to Participant. In order to reconcile publication and business concerns, the Parties agree to a review procedure as follows:
1. Each Party (Submitter) shall submit to the other Party (Recipient), in advance, proposed written and oral publications pertaining to work under the CRADA. Proposed oral publications shall be submitted to Recipient in the form of a written presentation synopsis and a written abstract.
 2. Recipient shall provide a written response to the Submitter within thirty (30) days, either objecting or not objecting to the proposed publication. Submitter shall consider all objections of Recipient and shall not unreasonably refuse to incorporate the suggestions and meet the objections of Recipient. The proposed publication shall be deemed not objectionable, unless the proposed publication contains Proprietary Information, Protected CRADA Information, or material that would create potential statutory bars to filing the United States or corresponding foreign patent applications, in which case express written permission shall be required for publication.
- B. The Parties agree that neither will use the name of the other Party or its employees in any promotional activity, such as advertisements, with reference to any product or service resulting from this CRADA, without prior written approval of the other Party.

Article XIII. Copyrights

- A. The Parties may assert copyright in any of their Generated Information. Assertion of copyright generally means to enforce or give any indication of an intent or right to enforce such as by marking or securing Federal registration.
- B. All copyrights of the Participant and The Regents to original information for which authorship takes place during the performance of work under this CRADA shall be licensed as set forth in Appendix C (Intellectual Property Agreement), subject to any obligation of protection as required in Articles VII, VIII, and other provisions of this Article.
- C. For Generated Information, the Parties acknowledge that the Government has for itself and others acting on its behalf, a royalty-free, non-transferable, non-exclusive, irrevocable, worldwide copyright license to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government, all copyrightable works produced in the performance of this CRADA, subject to the restrictions this CRADA places on publication of Proprietary Information and Protected CRADA Information.
- D. For copyrighted computer software produced in the performance of this CRADA, the Party owning the copyright will provide the source code, an expanded abstract as described in Appendix B (Energy Science and Technology Software Center), the executable object code and the minimum support documentation needed by a competent user to understand and use the software, to DOE's Energy Science and Technology Software Center, P. O. Box 1020, Oak Ridge, TN 37831. The expanded abstract will be treated in the same manner as Generated Information in Paragraph C of this Article. Except, Leader proprietary software is excluded from this clause and shall not be made available for government or non-government use except by a separate license agreement negotiated with Leader.
- E. The Regents and the Participant agree that, with respect to any copyrighted computer software produced in the performance of this CRADA, DOE has the right, at the end of the period set forth in Article VIII, Paragraph B hereof and at

the end of each two-year interval thereafter, to request The Regents and the Participant and any assignee or exclusive licensee of the copyrighted software to grant a non-exclusive, partially exclusive, or exclusive license to a responsible applicant upon terms that are reasonable under the circumstances, provided such grant does not cause a termination of any licensee's right to use the copyrighted computer software. If The Regents or the Participant or any assignee or exclusive licensee refuses such request, The Regents and the Participant agree that DOE has the right to grant the license if DOE determines that The Regents and the Participant, assignee, or licensee has not made a satisfactory demonstration that it is actively pursuing commercialization of the copyrighted computer software.

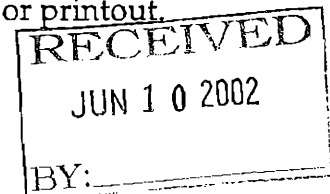
Before requiring licensing under this Paragraph E, DOE shall furnish to The Regents/Participant written notice of its intentions to require The Regents/Participant to grant the stated license, and The Regents/Participant shall be allowed thirty (30) days (or such longer period as may be authorized by the cognizant DOE Contracting Officer for good cause shown in writing by The Regents/Participant) after such notice to show cause why the license should not be required to be granted.

The Regents/Participant shall have the right to appeal the decision by the DOE to the grant of the stated license to the Invention Licensing Appeal Board as set forth in Paragraphs (b) - (g) of 10 CFR 781.65, "Appeals".

- F. The Parties agree to place Copyright and other notices, as appropriate for the protection of copyright, in human readable form onto all physical media, and in digitally encoded form in the header of machine readable information recorded on such media such that the notice will appear in human readable form when the digital data are off-loaded or the data are accessed for display or printout.

Article XIV. Reporting Subject Inventions

- A. The Parties agree to disclose to each other each and every Subject Invention, which may be patentable or otherwise protectable under the Patent Act. The Parties acknowledge that The Regents and Participant will disclose their



respective Subject Inventions to the DOE within two (2) months after the inventor first discloses the invention in writing to the person(s) responsible for patent matters of the disclosing Party.

- B. These disclosures should be in sufficiently complete technical detail to convey a clear understanding, to the extent known at the time of the disclosure, of the nature, purpose and operation of the Subject Invention. The disclosure shall also identify any known actual or potential statutory bars (i.e., printed publications describing the Subject Invention or the public use or on sale of the Subject Invention in this country). The Parties further agree to disclose to each other any subsequent known actual or potential statutory bar that occurs for a Subject Invention disclosed but for which a patent application has not been filed. All Subject Invention disclosures shall be marked as confidential under 35 USC 205.

Article XV. Title to Subject Inventions

Whereas the Participant and The Regents have been granted the right to elect to retain title to Subject Inventions,

- A. Each Party shall have the first option to elect to retain title to any Subject Invention made by its employees and said election shall be made: (1) for the Participant within twelve (12) months of disclosure of the Subject Invention to DOE, or (2) for The Regents within the time period specified in its prime contract for electing to retain title to Subject Inventions. If a Party elects not to retain title to any Subject Invention of its employees, then the other Party shall have the second option to elect to retain title to such Subject Invention. For Subject Inventions conceived or first actually reduced to practice under this CRADA which are joint Subject Inventions made by The Regents and the Participant, title to such inventions shall be jointly owned by The Regents and the Participant. The DOE shall retain title to any invention which is not retained by any Party.
- B. The Parties acknowledge that the DOE may obtain title to each Subject Invention reported under Article XIV for which a patent application or applications are not filed pursuant to Article XVI and for which any issued patents are not maintained by any Party to this CRADA.

- C. The Parties acknowledge that the Government retains a non-exclusive, non-transferable, irrevocable, paid-up license to practice or to have practiced for or on behalf of the United States every Subject Invention under this CRADA throughout the world.
- D. The intellectual property rights of The Regents and Participant are further governed by Appendix C, (Intellectual Property Agreement).

Article XVI. Filing Patent Applications

- A. The Parties agree that the Party initially indicated as having an ownership interest in any Subject Inventions (Inventing Party) shall have the first opportunity to file U.S. and foreign patent applications. If the Participant does not file such applications within one (1) year after election, or if The Regents does not file such applications within the filing time specified in its prime contract, then the other Party to this CRADA exercising an option pursuant to Article XV may file patent applications on such Subject Inventions. If a patent application is filed by the other Party (Filing Party), the inventing Party shall reasonably cooperate and assist the Filing Party, at the Filing Party's expense, in executing a written assignment of the Subject Invention to the Filing Party and in otherwise perfecting the patent application, and the Filing Party shall have the right to control the prosecution of the patent application. The Parties shall agree between themselves as to who will file patent applications on any joint Subject Invention.
- B. The Parties agree that DOE has the right to file patent applications in any country if neither Party desires to file a patent application for any Subject Invention. Notification of such negative intent shall be made in writing to the DOE Contracting Officer within three (3) months of the decision of the non-inventing party to not file a patent application for the Subject Invention pursuant to Article XV or not later than sixty (60) days prior to the time when any statutory bar might foreclose filing of a U.S. patent application.

Article XVII. Trademarks

The Parties may seek to obtain Trademark protection on products or services generated under this Agreement in the United States or foreign countries. The Party originating the Trademark/Service Mark on products or services generated under this CRADA in the United States or foreign countries, shall have the entire right, title, and interest in/to such marks subject to the Government retained rights set forth hereinafter. The Parties hereby acknowledge that the Government shall have the right to indicate on any similar goods or services produced by or for the Government, that such goods or services were derived from and are a DOE version of the goods or services protected by such Trademark/Service Mark with the Trademark and the owner thereof being specifically identified. In addition, the Government shall have the right to use such Trademark/Service Mark in print or communications media.

Article XVIII. Mask Works

The Parties may seek to obtain legal protection for Mask Works fixed in semiconductor products generated under this Agreement as provided by Chapter 9 of Title 17 of the United States Code. Each Party shall have the first option to assert rights to Mask Works made solely by its employees. If a Party elects not to assert rights to a Mask Work made solely by its employees or made in connection with the other Party to this CRADA, then the other Party shall have the option to elect to assert rights to such Mask Works. The Parties hereby acknowledge that the Government or others acting on its behalf shall retain a non-exclusive, paid-up, worldwide, irrevocable, non-transferable license to reproduce, import, or distribute the covered semiconductor product by or on behalf of the Government, and to reproduce and use the Mask Work by or on behalf of the Government.

Article XIX. Cost of Intellectual Property Protection

Each Party shall be responsible for payment of all costs relating to copyright, Trademark, and Mask Work filing, U.S. and foreign patent application filing and prosecution, and all costs relating to maintenance fees for U.S. and foreign patents hereunder which are solely owned by that Party. Government/DOE laboratory funds

contributed as DOE's cost share to a CRADA cannot be given to Participant for payment of Participant's costs of filing and maintaining patents or filings for Copyrights, Trademarks, and Mask Works.

Article XX. Reports of Intellectual Property Use

Participant agrees to submit, for a period of three (3) years and upon request of DOE, a non-proprietary report no more frequently than annually on the efforts to utilize any Intellectual Property arising under this CRADA.

Article XXI. DOE March-In Rights

The Parties acknowledge that the DOE has certain march-in-rights to any Subject Invention in accordance with 48 CFR 27.304-1(g) and 15 USC 3710a(b)(1)(B) and (C). Nothing herein is intended to be a waiver by Leader of its rights under the Federal Trade Secrets Law 18 USC § 1831 et seq. (1996); nor does the language herein purport to exempt The Regents or the DOE from the applicability to them of the Federal Trade Secrets Law 18 USC § 1831 et seq. (1996).

Article XXII. U.S. Competitiveness

The Parties agree that a purpose of this CRADA is to provide substantial benefit to the U.S. economy.

In exchange for the benefits received under this CRADA, the Participant therefore agrees to the following:

- A. Products embodying Intellectual Property developed under this CRADA shall be substantially manufactured in the United States;
- B. Processes, services, and improvements thereof which are covered by Intellectual Property developed under this CRADA shall be incorporated into the Participant's manufacturing facilities in the United States either prior to or simultaneously with implementation outside the United States. Such processes,

services, and improvements, when implemented outside the U.S., shall not result in reduction of the use of the same processes, services, or improvements in the United States; and

- C. The Regents agrees to a U.S. Industrial Competitiveness clause in accordance with its prime contract with respect to any licensing and assignments of its intellectual property arising from this CRADA, except that any licensing or assignment of its intellectual property rights to the Participant shall be in accordance with the terms of Paragraphs A and B of this Article.

Article XXIII. Assignment of Personnel

- A. It is contemplated that each Party may assign personnel to the other Party's facility as part of this CRADA to participate in or observe the research to be performed under this CRADA. Such personnel assigned by the assigning Party shall not during the period of such assignments be considered employees of the receiving Party for any purposes, including but not limited to any requirements to provide workers' compensation, liability insurance coverage, payment of salary or other benefits, or withholding of taxes.
- B. The receiving Party shall have the right to exercise routine administrative and technical supervisory control of the occupational activities of such personnel during the assignment period and shall have the right to approve the assignment of such personnel and/or to later request their removal by the assigning Party.
- C. The assigning Party shall bear any and all costs and expenses with regard to its personnel assigned to the receiving Party's facilities under this CRADA. The receiving Party shall bear facility costs of such assignments.

Article XXIV. Force Majeure

No failure or omission by The Regents or Participant in the performance of any obligation under this CRADA shall be deemed a breach of this CRADA or create any liability if the same shall arise from any cause or causes beyond the control of The

Regents or Participant, including but not limited to the following, which, for the purpose of this CRADA, shall be regarded as beyond the control of the Party in question: Acts of God; acts or omissions of any government or agency thereof; compliance with requirements, rules, regulations, or orders of any governmental authority or any office, department, agency, or instrumentality thereof; fire; storm; flood; earthquake; accident; acts of the public enemy; war; rebellion; insurrection; riot; sabotage; invasion; quarantine; restriction; transportation embargoes; or failures or delays in transportation.

Article XXV. Administration of the CRADA

It is understood and agreed that this CRADA is entered into by The Regents under the authority of its prime contract with the DOE. The Regents is authorized to and will administer this CRADA in all respects unless otherwise specifically provided for herein. Administration of this CRADA may be transferred from The Regents to the DOE or its designee with notice of such transfer to the Participant, and The Regents shall have no further responsibilities except for the confidentiality, use, and nondisclosure obligations of this CRADA.

Article XXVI. Records and Accounting for Government Property

The Participant shall maintain records of receipts, expenditures, and the disposition of all Government property in its custody related to the CRADA.

Article XXVII. Notices

- A. Any communications required by this CRADA, if given by postage prepaid first class U.S. Mail or other verifiable means addressed to the Party to receive the communication, shall be deemed made as of the day of receipt of such communication by the addressee, or on the date given if by verified facsimile. Address changes shall be given in accordance with this Article and shall be effective thereafter. All such communications, to be considered effective, shall include the number of this CRADA.

B. The addresses, telephone numbers and facsimile numbers for the Parties are as follows:

1. For THE REGENTS:

U.S. Mail Only:

The Regents of the
University of California
Lawrence Livermore National Laboratory
Industrial Partnerships & Commercialization
P.O. Box 808, L-795
Livermore, CA 94551

FedEx, UPS, Freight:

The Regents of the
University of California
Lawrence Livermore National Laboratory
Industrial Partnerships & Commercialization
7000 East Avenue, L-795
Livermore, CA 94550

a. FORMAL NOTICES AND COMMUNICATIONS, COPIES OF REPORTS

Attn: Paul Martin
Tel: (925) 423-9724
Fax: (925) 423-8988

b. PROJECT MANAGER, REPORTS, COPIES OF FORMAL NOTICES AND COMMUNICATIONS

Attn: Virgil N. Kohlhepp
Tel: (925) 424-4486
Fax: (925) 422-8529

2. For PARTICIPANT:

U.S. Mail Only:

LEADER TECHNOLOGIES, LLC
Spectrum Commerce Center
921 Eastwind Drive, Suite 118
Westerville, OH 43081

FedEx, UPS, Freight:

LEADER TECHNOLOGIES, LLC
Spectrum Commerce Center
921 Eastwind Drive, Suite 118
Westerville, OH 43081

a. **FORMAL NOTICES AND COMMUNICATIONS, COPIES OF REPORTS**

Attn: Michael T. McKibben

Tel: (614) 890-1986

Fax: (614) 864-7922

b. **PROJECT MANAGER, REPORTS, COPIES OF FORMAL NOTICES AND COMMUNICATIONS**

Attn: Professor James P. Chandler

Tel: (202) 296-8484

Fax: (202) 296-4098

Article XXVIII. Disputes

The Parties shall attempt to jointly resolve all disputes (such joint resolution may include non-binding arbitration) arising from this CRADA. If the Parties are unable to jointly resolve a dispute within a reasonable period of time, then the Parties or either of them shall have the right to commence proceedings in a court of competent jurisdiction. U.S. Federal law is to govern the Agreement to the extent there is such law. To the extent that there is no applicable U.S. Federal law, this CRADA and performance thereunder shall be governed by the law of the State of California, without reference to that state's conflict of laws provisions.

Article XXIX. Entire CRADA and Modifications

A. It is expressly understood and agreed that this CRADA with its Appendices contains the entire agreement between the Parties with respect to the subject matter hereof, and that all prior representations or agreements relating hereto have been merged into this document and are thus superseded in totality by this CRADA. This CRADA shall not be effective until approved by DOE.

B. Any agreement to materially change any terms or conditions of this CRADA or the Appendices shall be valid only if the change is made in writing, executed by the Parties hereto, and approved by DOE.

Article XXX. Termination

This CRADA may be terminated by either Party upon thirty (30) days written notice to the other Party. This CRADA may also be terminated by The Regents in the event of failure by the Participant to provide the necessary advance funding, as agreed in Article III.

In the event of termination by either Party, each Party shall be responsible for its share of the costs incurred through the effective date of termination, as well as its share of the costs incurred after the effective date of the termination, and which are related to the termination. The confidentiality, use, and/or non-disclosure obligations of this CRADA shall survive any termination of this CRADA.

FOR THE REGENTS: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

BY: [Signature]
NAME: Jeffrey Wadsworth
TITLE: Deputy Director for Science and Technology
Lawrence Livermore National Laboratory
DATE: 3/19/02

FOR PARTICIPANT: LEADER TECHNOLOGIES, LLC

BY: [Signature]
NAME: Michael T. McKibben
TITLE: Chairman & CEO
DATE: 2/8/2002

APPENDIX A

STATEMENT OF WORK

Related to LLNL Case No. TC-2030-01

RAPIDLY DEPLOYABLE SECURITY SYSTEM

A. PURPOSE

This is a collaborative effort between The Regents of the University of California, Lawrence Livermore National Laboratory (LLNL) and Leader Technologies, LLC (LEADER), to develop a security system that is rapidly deployable and can assimilate data from a variety of sources.

1) Background:

There is a continual need for a security-based system that can be rapidly deployed to protect man and material. The challenge is that often a variety of sensors are required to protect against a range of possible intrusions. For example, motion detectors and surveillance equipment are needed to detect the possibility of intrusion by personnel. Often data from disparate sources must be combined to predict or detect intrusions. Profiles on potential intruders can be combined with video surveillance data to better predict and detect the actions of intruders. A security-based system should be able to function as a data warehouse for signals and human intelligence.

The hardware for a security-based system should be sensitive and secure from tampering. The output signals should be encrypted and authenticated to prevent spoofing. The software backbone for the system should interface readily with a variety of sensor types, be able to collect data from disparate sources, store data in a format that enables the data to be easily searched, and be highly scalable. The software should be modularized requiring no additional information technology (IT) infrastructure support. The hardware/software system should operate well within a geographically and technologically diverse system.

LEADER develops and manufactures a Data Clearinghouse System¹ that aggregates many types of data from many sources into a single data repository. LEADER's software system has been designed to collect and store data from disparate sources. The data can be searched on a variety of factors such as key words or for specified patterns. This single repository is used to solve various business problems ranging from security, to manufacturing automation, to personnel management. LEADER has identified a need to integrate video sources into their product.

LLNL's Smart Camera Digital Video Surveillance System has proven to successfully encrypt high quality video and still images. The Smart Camera System hardware and software provides a platform for the addition of new hardware interfaces and software features. It significantly reduces cabling requirements and facilitates multiplexing with banks of cameras. The signals are authenticated and encrypted to prevent spoofing and tampering. The Smart Camera System provides an ideal video source for LEADER's application and path for integration with LEADER's Data Clearinghouse System.

2) Expected Accomplishments and Goals:

The ultimate objective of the LEADER and LLNL strategic partnership is to develop and commercialize a security-based system product and platform for the use in protecting the substantial physical and economic assets of the government and commerce of the United States.

The primary goal of this project is to integrate video surveillance hardware developed by LLNL with a security software backbone developed by LEADER. Upon completion of the project, a prototype hardware/software security system that is highly scalable will be demonstrated.

(¹ Clearinghouse is defined by Merriam-Webster's Collegiate Dictionary "2 a central agency for the collection, classification, and distribution especially of information; *broadly*: an informal channel for distributing information or assistance." Online <http://www.m-w.com.cgi-bm> dictionary)

3) Reason for Cooperation:

LEADER and LLNL realized the mutual benefits of a strategic partnership to integrate their respective complimentary and synergistic technologies to develop and commercialize a security-based system for the benefit of the U.S. Government and U.S. economy:

This cooperation combines LLNL's engineering expertise in the Smart Camera System with LEADER's expertise in developing software as a communications network backbone to have a system that can be rapidly deployed. LLNL and LEADER recognize that integration of LLNL's Smart Camera and LEADER's Data Clearinghouse System for security system improvements and new feature development would be mutually beneficial.

LLNL's Smart Camera has a unique ability to collect data from multiple sensors. As a result, a large amount of information will need to be analyzed. LEADER's Data Clearinghouse Software is unique in that it can analyze large amounts of data quickly. This combination would provide a security-based system with improved breach resistance.

It is envisioned that the resulting security-based system could be deployed to protect U. S. Government facilities and assets as well as the physical and economic assets of U. S. business enterprises.

4) Desired Results/Products:

Upon completion of this CRADA, a rapidly deployable security system that combines LLNL's Smart Camera technology and LEADER's communications network backbone will be integrated and tested. This is an anticipated multi-phase effort to develop a wired and wireless security system for communicating, storing, retrieving, collaborating and analyzing signals and human intelligence input that can be rapidly deployed.

B. SCOPE OF PROJECT

1) Technical Objectives:

A multi-phase project for integration, system improvements, and new feature development is anticipated. The multi-phase approach allows for decision points to proceed with follow-on phases based upon the availability of resources, performance of the prototype system, success of the partnership, and mutual benefits to LLNL and LEADER.

This project plan outlines work to be performed in Phase I that will result in a prototype system that integrates LLNL's Smart Camera Digital Video Surveillance System with the LEADER Data Clearinghouse System.

The prototype system will consist of two Smart Cameras, provided by LLNL; and a Smart Camera Viewer PC and Data Clearinghouse System provided by LEADER.

The prototype system will be capable of capturing and displaying live video, recording live video, presenting instant replay video, and displaying still images on the Smart Camera Viewer. The system will integrate to the LEADER Data Clearinghouse System such that video clips can be captured from Smart Cameras and displayed on LEADER's LeaderBoard.

2) Division of Responsibilities and Tasks:

Task 1 - Assemble Smart Cameras (LLNL)

LLNL will assemble two Smart Camera Platform Computers with the following specifications. The standard Smart Camera software will be modified to exclude encryption capabilities. The Smart Camera Platform Computers and MPEG2 PCI board will remain the property of LLNL and will be loaned to LEADER for their internal use and evaluation under the terms and conditions of a separate Material Transfer Agreement.

- 266MHz
- Windows NT 4.0

- 100 BaseT Network Interface
- Fixed analog camera with a manual vari-focal lens
- Second interface for Pelco Spectradome II PTZ cameras (note: this is an interface only. The Pelco Spectradome II PTZ cameras will not be supplied.)
- Pelco enclosure
- Interface for local keyboard, monitor, and mouse
- Switch for selecting between the fixed camera and the Pelco Spectradome II
- 110 VAC power supply

In addition, LLNL will supply a four-channel MPEG2 PCI board capable of supplying four streams of NTSC Composite video simultaneously. This board will be installed in the Smart Camera Viewer PC provided by LEADER.

Task 2 – Provide a Network, PC, and NTSC Composite Television Monitor (LEADER)

LEADER will provide and support a network with the following specifications:

- A minimum of four (4) 100 BaseT compatible drops
- TCP/IP, UDP/IP, MUDP/IP, and IGMP protocol support

LEADER will provide a PC that meets the following specifications:

- Windows NT 4.0
- 300Mhz or greater
- 256Mbytes of RAM
- CD-ROM drive
- SVGA Monitor with resolution of at least 800x1000 resolution supporting at least 65536 colors
- At least one empty full-length PCI slot .

LEADER will supply at least one NTSC/Composite compatible television monitor.

Task 3 - Supply Data Clearinghouse Software Application (LEADER)

LEADER will supply a licensed copy of their Data Clearinghouse Software Application

Task 4 - Assemble and Test a Prototype LLNL Smart Camera Digital Video Surveillance System Connected to a LEADER Software Backbone (LLNL and LEADER)

LLNL and LEADER will jointly assemble, develop, and test a prototype system. The prototype will have the following capabilities:

- Ability to establish connections from the Smart Camera Viewer to each of the Smart Cameras for controlling the Smart Cameras
- Ability to display video from either or both Smart Cameras on the Smart Camera Viewer
- Ability to monitor and annunciate tamper, connectivity, and scene quality alarms at the Smart Camera Viewer
- Ability to capture and record instant replay video clips at the Smart Camera Viewer
- Ability to capture still frames on the Smart Camera Viewer
- Ability to perform all standard Smart Camera remote maintenance functions from the Smart Camera Viewer

Task 5 – Develop Software Interfaces (LEADER and LLNL)

LEADER and LLNL will jointly develop the software that interfaces LEADER's Data Clearinghouse to LLNL's Smart Camera System. The interface software will have the following capabilities:

- Ability to cause instant replay video clips to be captured from the Smart Camera Viewer into the Leader Clearinghouse Software
- Ability to replay video clips that have been captured from the Smart Camera system on the Leader LeaderBoard user interface

Task 6 – Document and Review Phase I Results (LEADER and LLNL)

LEADER and LLNL will document Phase I results and meet to make a determination for continuation of project into Phase II.

3) Phases of the Project:

Phase 1 will take twenty-one (21) weeks to complete. Table 1. Schedule of Tasks, reflects the relationship between the tasks in Phase I and the time required to complete each milestone.

TABLE I. SCHEDULE OF TASKS

Task	Schedule (Weeks)																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1. Assemble Smart Cameras	█	█	█	█	█	█	█	█	█												
2. Provide a Network, PC, and NTSC Composite Television Monitor	█	█	█	█	█																
3. Supply Data Warehouse Software Application	█	█	█																		
4. Assemble and Test a Prototype Smart Camera Digital Video Surveillance System Connected to a LEADER Software Backbone										█	█	█	█	█							
5. Develop Software Interfaces										█	█	█	█	█							
6. Document and Review Phase I Results/Decision Point for Phase II Plan															█	█	█	█	█	█	█

4) Deliverables:

Task 1 – Two Smart Cameras (LLNL)

Task 2 – Network, PC, and NTSC Monitor (LEADER)

Task 3 - Data Clearinghouse Software License and System Preparation (LEADER)

Task 4 – Prototype Smart Camera Surveillance System Connected to the LEADER Software Backbone (LLNL and LEADER)

Task 5 – Software Interfaces (LEADER and LLNL)

Task 6 – Document Summary Report of Phase I Results and Determination of Phase II Follow-on (LEADER and LLNL)

5) Manpower Levels:

FY02

LLNL: .205 FTEs 53.5 man-days

LEADER: .1 FTE 26 man-days

6) Limitations of Time or Resources:

There are no limitations of time or resources to support this Phase I project plan.

C. ESTIMATED COST

1) Estimated Cost to Each Party:

The cost of the work at LLNL will be funded by LEADER. LEADER's estimated funds-in contribution to The Regents is One Hundred Five Thousand Seven Hundred Forty-Six Dollars (\$105,746). LEADER's estimated in-kind contribution is Three Hundred Eighteen Thousand Dollars (\$318,000) for its effort under this CRADA. The DOE contribution, in the form of a waiver of the Federal administrative charge, is estimated to be Three Thousand One Hundred Seventy-Two Dollars (\$3,172), which would otherwise be payable by the Participant.

The total cost estimate for this twenty-one (21) week CRADA project is Four Hundred Twenty-Six Thousand Nine Hundred Eighteen Dollars (\$426,918).

D. TECHNICAL CONTACTS FOR EACH PARTY

1. THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

Lawrence Livermore National Laboratory
7000 East Avenue
P.O. Box 808, L-795
Livermore, CA 94551

IPAC Contact: Paul Martin, L-795
Tel: (925) 422-7782
Fax: (925) 423-8988
Email: martin22@llnl.gov

Technical Contact: Virgil Kohlhepp, L-257
Tel: (925) 424-4486
Fax: (925) 422-8529
Email: kohlhepp1@llnl.gov

2. LEADER TECHNOLOGIES, LLC

921 Eastwind Drive, Suite 118
Westerville, OH 43081

Business Contact: Michael T. McKibben
Tel: (614) 890-1986
Fax: (614) 864-7922
Email: mmckibben@leader.com

Technical Contact: Brad Whiteman
Tel: (614) 890-1986
Fax: (614) 864-7922
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Legal Contact: Professor James P. Chandler
Tel: (202) 296-8484
Fax: (202) 296-4098
Email: chandler@nipli.org

APPENDIX B

ENERGY SCIENCE AND TECHNOLOGY SOFTWARE CENTER Abstract Format

Related to LLNL Case No. TC-2030-01

1. *Identification*

Provide the following two fields to be used to uniquely identify the software. The software acronyms plus the short or WIC (keywords in context) title will be combined to be used as the identification of the software.

Software Acronym (limit 20 characters). The name given to the main or major segment of module package usually becomes the name of the code package. If an appropriate name is not obvious, invent one which is related to the contents.

Short or KWIC title (limit 80 characters). This title should tell something of the nature of the code system: calculational method, geometry, or any feature that distinguishes this code package from another. It should be telegraphic in style, with no extraneous descriptors, but more than a string of keywords and phrases. The word "code" (alone) and "program" do not belong in a description of a code "package".

2. *Author Name(s) and Affiliations*

List author(s) or contributor(s) names followed by the organizational affiliation. If more than one affiliation is applicable, please pair authors with their affiliations.

3. *Software Completion Date*

List approximate date(s) that the version of the executable module(s), which will be created by the submitted program modules, was first used in an application environment.

4. *Brief Description*

Briefly describe the purpose of the computer program, state the problem being solved, and summarize the program functions and capabilities. This will be the primary field used for announcement purposes.

5. *Method of Solution*

Provide a short summary of the mathematical methods, engineering principles, numerical algorithms, and procedures incorporated into the software.

6. *Computer(s) for Which Software is Written*

List the computer(s), i.e., IBM3033, VAX6220, VAX, IBM PC, on which this submittal package will run.

7. *Operating System*

Indicate the operating system used, release number, and any deviations or exceptions, i.e., is the operating system "off the shelf" with no modifications, or has the operating system been modified/customized. If modified, note modifications in field 11.

8. *Programming Language(s) Used*

Indicate the programming language(s) in which the software is written along with approximate percentage (in parentheses) of each used. For example, FORTRAN IV (95%), Assembler (5%).

9. *Software Limitations*

Provide a short paragraph on any restrictions implied by storage allocation, such as the maximum number of energy groups and mesh points, as well as those due to approximations used, such as implied argument-range limitations. Also to be used to indicate the maximum number of users, etc. or other limitations.

10. *Unique Features of the Software*

Highlight the advantages, distinguishing features, or special capabilities which may influence the user to select this package over a number of similar packages.

11. *Related and Auxiliary software*

If the software supersedes or is an extension of earlier software, identify the original software here. Identify any programs not considered an integral part of this software but used in conjunction with it (e.g., for preparing input data, plotting results, or coupled through use of external data files). Note similar library software, when known.

12. *Other Programming or Operating Information or Restrictions*

Indicate file naming conventions used, e.g., (filename), DOC (DOC is a filename extension normally used to indicate a documentation file), additional subroutines, function libraries, installation support software, or any special routines required for operation of this package other than the operating system and programming language requirements listed in other fields. If proprietary software is required, this should also be indicated.

13. *Hardware Requirements*

List hardware and installation environment requirements necessary for full utilization of the software. Include memory and RAM requirements, in addition to any nonstandard features.

14. *Time Requirements*

Include any timing requirement estimations, both wall clock and computer clock, necessary for the execution of the package. Give enough detail to enable the potential user to estimate the execution time for a given choice of program parameters (e.g., 5-10 min.).

15. *References*

List citations of pertinent publications. List (by author, title, report, bar code or order number if available, and date). References are to be broken down into two groupings.

- (a) Reference documents that are provided with the submittal package.
- (b) Any additional background reference materials generally available.

16. *Categorization and Keywords*

- (a) Subject Classification Code - chosen from the Subject Classification Guide (Appendix E of ESTSC-I), this one-letter code designation is to be supplied by the submitter.
- (b) Keywords - Submitters should include keywords as taken from the ESTSC thesaurus listing (Appendix F of ESTSC-I). Keywords chosen that are not on the list will be subject to ESTSC approval before being added to the thesaurus. Subsequent revision lists will be available. ESTSC may also add additional keywords to aid in the indexing of the material.

17. *Category*

The subject classification chosen for the Center subject classification guide is shown.

KEYWORDS: This is a listing of the keywords associated with the program, supplied by the program author and/or Center, based on the Center Thesaurus.

18. *Sponsor*

This is the name of the program office or division and the agency responsible for funding the software development effort.

APPENDIX C

INTELLECTUAL PROPERTY AGREEMENT

Related to the LLNL Case No. TC-2030-01

Subject to the provisions of the CRADA between The Regents and Participant for the transfer of technology resulting from the CRADA, the Parties agree as follows:

1. To the extent that The Regents obtains title or authority to license Intellectual Property first arising or produced under this CRADA, The Regents will negotiate in good faith with the Participant for a license to rights in such Intellectual Property for the time periods set forth in Paragraphs 3 and 5 of this Appendix C.
2. Any license granted to the Participant will be based upon reasonable commercial terms and will be negotiated at the conclusion of this CRADA, unless rights are required by the Participant for commercialization at an earlier date.
3. The exclusive period reserved for the Participant to negotiate a license to Intellectual Property will be for the life of this CRADA plus a period of not more than six (6) months after the completion or termination of this CRADA. This period may be extended upon mutual agreement of the Parties. Any license granted to the Participant will be based on the field of use designated in Paragraph 5.
4. The Regents will require an acceptable preliminary marketing plan for the business opportunity sought by the Participant prior to the execution of any license agreement. The Regents will require diligent pursuit in the commercialization of Intellectual Property licensed from The Regents, which will include reasonable performance milestones and a royalty stream.
5. Participant has the option for the period specified in Paragraph 3 to negotiate a limited exclusive license to a Subject Invention made by The Regents in the field of use set forth below. Any license granted to the Participant will be subject to DOE March-in Rights (Article XXI) and a non-exclusive, nontransferable, irrevocable, paid-up license to practice the Subject Invention or have the

invention practiced throughout the world by or on behalf of the Government.

Field of Use: Deployment of Security Systems for commercial purposes and U.S. Government Agencies for Applications Utilizing LEADER's Security Software Integrated with LLNL's Smart Camera Hardware and Software.

The LEADER Security System (sometimes referred to as the LEADER Data Clearinghouse System) referenced above refers to LEADER software programs presently called LEADER2LEADER, and CLICK2LEADER.

The LEADER2LEADER program comprises approximately 823, 150 lines of code, and the CLICK2LEADER program comprises approximately 823, 150 lines of codes.

In order to avoid future confusion as to the exact nature of these programs, at the time this CRADA is executed, LEADER agrees to place in trust hard copies of both of these programs in a sealed package with a law firm of LEADER's choosing.

In the event of any future dispute over what constitutes the "LEADER Security Software", the sealed package shall be opened only in the presence of an LLNL representative.

It is understood that ongoing improvements to and modifications of the LEADER software will be made subsequent to the execution of this CRADA.

The limited exclusive license referenced above will embody such improvements and modifications, at LEADER's option.

6. The Parties agree, subject to prior commitments, to make available to the Government a royalty-free license, for research and demonstration work only, in Background Intellectual Property, the infringement of which cannot necessarily be avoided upon the practice of any Subject Invention or other Intellectual Property developed under this CRADA.

7. The Parties represent that, on a best efforts basis, existing background intellectual property is identified in Appendix D of this CRADA. If there are other intellectual properties, owned or controlled by either Party to this CRADA, that are needed by either side for the effective and timely commercialization of the technology developed under this CRADA, the Parties, subject to internal policy and prior commitments, may make such intellectual properties available under appropriate licenses or other use arrangements.

FOR THE REGENTS: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

BY: [Signature]
NAME: for Jeffrey Wadsworth
C. Bruce Tarter
TITLE: Director, Lawrence Livermore National Laboratory
DATE: 3/19/02

FOR PARTICIPANT: LEADER TECHNOLOGIES, LLC

BY: [Signature]
NAME: Michael T. McKibben
TITLE: Chairman & CEO
DATE: 2/8/2002

RECEIVED
JUN 10 2002
BY: _____

APPENDIX D

BACKGROUND INTELLECTUAL PROPERTY

Related to LLNL Case No. TC-2030-01

The Regents:

LLNL has reviewed its files and notes the following Background Intellectual Property:

IL-10740 "Flexible Feature Interface for Multimedia Sources," Douglas R. Coffland,
filed 8/11/00

IL-10742 "Multi-user Control System for Multimedia Sources," Douglas R. Coffland,
filed 8/11/00

LEADER TECHNOLOGIES, LLC:

LEADER has reviewed its files and notes the following Background Intellectual Property:

The items listed contain proprietary and confidential information not for general disclosure at this time. This information is documented in encryption format under separate cover and will be maintained in IPAC's Valuable Papers file.

Sixty (60) patents and/or patentable inventions

Seven Hundred Ninety-Two (792) proprietary marks and topology

Two Thousand Eight (2008) copyrights

Two Hundred Eighty-Eight (288) domain names

APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY
RELATED TO LLNL CASE NO. TC-2030-01, PAGE 10 OF 10

695.	LeadershipVendor	739.	LeaderUniversity
696.	LeadershipView	740.	LeaderValue
697.	LeadershipVision	741.	LeaderVendor
698.	LeadershipVoiceMail	742.	LeaderVersion
699.	Leadershipware	743.	LeaderVideo
700.	LeadershipWarehouse	744.	LeaderView
701.	LeadershipWebs	745.	LeaderVision
702.	LeadershipWhisper	746.	LeaderVoiceMail
703.	LeaderSignal	747.	LeaderVote
704.	LeaderSignature	748.	LeaderVotingBoard
705.	LeaderSite	749.	Leaderware
706.	LeaderSlide	750.	LeaderWarehouse
707.	LeaderSlideshow	751.	LeaderWeb
708.	LeaderSmartCamera	752.	LeaderWebChannel
709.	LeaderSoftware	753.	LeaderWebChild
710.	LeaderSoftwareNetwork	754.	LeaderWebLab
711.	LeaderSpellCheck	755.	LeaderWebLeaderboard
712.	LeaderStaging	756.	LeaderWebParent
713.	LeaderStakeholder	757.	LeaderWebSecondary
714.	LeaderStandard	758.	LeaderWebSibling
715.	LeaderStorage	759.	LeaderWebTertiary
716.	LeaderStore	760.	LeaderWhisper
717.	LeaderStrategy	761.	LeaderZipNote
718.	LeaderStreamingMedia	762.	LRDP
719.	LeaderStructure	763.	LRDSP
720.	LeaderSupport	764.	Meeting Channel
721.	LeaderSurveillance	765.	MeetingChannel
722.	LeaderSurvey	766.	My Context
723.	LeaderSystem	767.	My Home Portal
724.	LeaderTable	768.	My Leader Context
725.	LeaderTactic	769.	My Leader Profile
726.	LeaderTask	770.	My Leaderboards
727.	LeaderTelephone	771.	My Office Portal
728.	LeaderTelephony	772.	The first fully scaleable leadership platform for communicating and banking intellectual capital.
729.	LeaderTemplate	773.	The first work environment centered on strategy.
730.	LeaderText	774.	The Idea Registry
731.	LeaderThemes	775.	The insight to achieve.
732.	LeaderThumbnail	776.	The Intellectual Capital Company
733.	LeaderTools	777.	The Internet's First Intellectual
734.	LeaderTouch-once		
735.	LeaderTraining		
736.	LeaderTrust		
737.	LeaderTV		
738.	LeaderUnifiedMessaging		

Leader.
Approved for Security

APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY
RELATED TO LLNL CASE NO. TC-2030-01, PAGE 11 OF 11

- | | | | |
|------|--|------|----------------|
| 778. | Capital Bank | 785. | Web Tertiary |
| | The Internet's First Knowledge Capital | 786. | WebChannel |
| | Banking System | 787. | WebChild |
| 779. | Web Channel | 788. | WebLeaderboard |
| 780. | Web Child | 789. | WebParent |
| 781. | Web Leaderboard | 790. | WebSecondary |
| 782. | Web Parent | 791. | WebSibling |
| 783. | Web Secondary | 792. | WebTertiary |
| 784. | Web Sibling | | |

Leader.
Amesbury Paper...

APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY
RELATED TO LLNL CASE NO. TC-2030-01, PAGE 12 OF 12

III. Copyrights

The alpha strings below are the unique Leader identifiers for each copyright.

- | | | | |
|-----|---------------|-----|---------------|
| 1. | HFTHJQYICRST | 41. | NPXNFPQCEDHW |
| 2. | ZGUMSKHIPTID | 42. | PUUBHHUGSPEP |
| 3. | WAWQECJTDWDHY | 43. | ZDSQCEFOYDSO |
| 4. | PRWMQFSEFDZI | 44. | UEOLVVXXIOQP |
| 5. | QEAKEYABIOPQ | 45. | UZTHMHALSMDO |
| 6. | JLMBCRTQIOXK | 46. | OHIZAGKTZWCU |
| 7. | TASEVOGLMJDH | 47. | EXPFUQZNRVDY |
| 8. | HXIESYLKKAUD | 48. | EMMIXSAXLELI |
| 9. | YNZSRHFMNEZD | 49. | HGNDIUWQGXPIX |
| 10. | WKYHLPIRJLLW | 50. | SGBUHQZKZLOC |
| 11. | QGIFIPIPPKFN | 51. | SUWMVNFFSUDR |
| 12. | XQVBYYGGZWHY | 52. | WFJBHGGKHZOHM |
| 13. | ERSKKTWQDUEF | 53. | GTXGNNAPSVXW |
| 14. | TNRWRAJAYQAE | 54. | CQLTOFVRRCFI |
| 15. | HGEUKULWFGHD | 55. | DTSTWWUNEEIF |
| 16. | FSWQCXZHQULN | 56. | ESJISDFIQVWU |
| 17. | XTRTDLINSPGO | 57. | AYGDFSJZVZPL |
| 18. | TBFVKZANGYZK | 58. | NHGJSREJIDFK |
| 19. | GMOTENXEVOUZ | 59. | MCXVZJVCGPMY |
| 20. | ZLZMYOWCOBFB | 60. | XQPPHEMRDPE |
| 21. | XQAUXLAEBLWT | 61. | FETFZMHTIYLH |
| 22. | RHABIDQCVHWV | 62. | KXRAQVMRIKPO |
| 23. | IMHSPFWPINPQ | 63. | MHSXEZTJUWXA |
| 24. | NAPRTCSLKVNC | 64. | RUYKFSHPVJEY |
| 25. | OXXEFGFGQILW | 65. | PQBETWCOTYWD |
| 26. | SRYAPIBAMBOL | 66. | XVCSRIKLSRUN |
| 27. | DMWMEJIGEUVY | 67. | IKSVRWLZOQED |
| 28. | UJGRQSHJKPKF | 68. | UQKZTSUYAUEG |
| 29. | WIDRSYUNFOS | 69. | GCVIVRTATJNP |
| 30. | XSEPEVEMZRVD | 70. | QDSUQNYRBDCC |
| 31. | OFQAHJFNFLZU | 71. | BSGEVCYYKSUI |
| 32. | QVMADQYDUDGI | 72. | YKPGYAKYXBQL |
| 33. | GANFBNZJHGKN | 73. | BNOQVXOVIQTO |
| 34. | UXDFZXELGXB | 74. | GALODXYUMZJT |
| 35. | IGUAHEJQFSFY | 75. | WJVWNA YBFGDT |
| 36. | PCZLFVLYPLIZ | 76. | VUYGGWPMOKQC |
| 37. | MQOACDGPPTYJ | 77. | QIDNAGFBEPES |
| 38. | OEKCEQGVUDYX | 78. | FAICYTEBPTBI |
| 39. | STLLAABXCXFY | 79. | LGCNOMLFRDLE |
| 40. | NXRNDKVRQAXC | 80. | XYWMQMNWIANM |

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|------|--------------|------|--------------|
| 81. | INKNCMHLMRMD | 125. | TPISPFUCNGHA |
| 82. | HIMIWPPQLZTK | 126. | JPTOLVYDDXYF |
| 83. | GSVWWORJBBCR | 127. | WMBHWNPTXUET |
| 84. | GNBHFPCCGMYK | 128. | ENWRYDDSYDBU |
| 85. | CHWGPLMYIBYM | 129. | OWHHIVJPDCQA |
| 86. | COBMFEVDJTT | 130. | JDNZUMGHBZKA |
| 87. | NUDLFHLNUCBW | 131. | PDIXNQCJWUPU |
| 88. | FUSXIJEVACKN | 132. | DHEVOEUGMWVB |
| 89. | PVQIDFILJWZA | 133. | EUYWPQTLQGUO |
| 90. | ARAYZLKAMJPJ | 134. | IWHFEVJZIVXA |
| 91. | JDOPMSSCHIOM | 135. | GEASBJOPPWOB |
| 92. | NSEXKLHFXBKR | 136. | TBJLMBFFITUO |
| 93. | SKVCSUXUTEPS | 137. | IMIDILSLCMDV |
| 94. | VNUMPRBQDSSU | 138. | KWIZWPYDOYKH |
| 95. | QETUBCOZVEGR | 139. | SYXAUHEYWYFG |
| 96. | RRXSSVWWXQXZ | 140. | CLITWJKPOIEB |
| 97. | CPZJVUNUUEOZ | 141. | JYMJNONXFEAF |
| 98. | MWSYYTDIFDDO | 142. | GHGJFUWGFZDT |
| 99. | MFHBFVXGGPQR | 143. | EKATBPFETFVT |
| 100. | RXJYTFZONROZ | 144. | VMGEIPSRVCBK |
| 101. | AAETTEPLPPAZ | 145. | JRCBJDKNLFIR |
| 102. | TVIRJXACPPBH | 146. | WPCORYYBVALM |
| 103. | PFEOWZLWFTXQ | 147. | OZMZSXYLUGG |
| 104. | WYTSBNVUCPAD | 148. | FCPLKPTWJCWK |
| 105. | VIAZUWGETXEG | 149. | DGYLUUSWLDHC |
| 106. | LTWZHhabBDQZ | 150. | VKYMSWJAUABQ |
| 107. | KCQMFWGSJFIB | 151. | HSENJQPPYXXZ |
| 108. | GKOFRKJKGMUE | 152. | RHFYEALMFXRM |
| 109. | FUNBLIYJLOJD | 153. | DMHYECBVRPZQ |
| 110. | YPJSPJWPHUZB | 154. | AKTJCIATXRQA |
| 111. | NKBMXCSZEUIP | 155. | QIOTLPQULWSY |
| 112. | CCXJLFGPUMQZ | 156. | FCBSGKTRTOAY |
| 113. | YBXERJHXSJVJ | 157. | UEQAXJWBQLAE |
| 114. | PYTVRYILDTVE | 158. | QGVMEXLMMFAB |
| 115. | AGNENPNGUMTW | 159. | MNUZIQPWWSLJ |
| 116. | FXOFAGAMQVSZ | 160. | FLPKPQNSAYEY |
| 117. | GADHRFZEPFRG | 161. | GYJLPCMXEHDL |
| 118. | WYXRBLPFDKUD | 162. | CWEKAMMJROJI |
| 119. | SXRHBCGUCFQB | 163. | LSUGWIPLCBFX |
| 120. | ZDYDFMXXSWIH | 164. | NYWSWVVMCPRW |
| 121. | UYPOUMWAYWED | 165. | YUTJIWSREOKM |
| 122. | CFNPRILWHLQU | 166. | XJIKOPFGMLSE |
| 123. | RXHGWUIBWJTZ | 167. | TDTKLBQPIUIA |
| 124. | XIJFLMQSWZVS | 168. | RTJMSWEFRTST |

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|------|---------------|------|--------------|
| 169. | RQYZMCNYAHEG | 213. | BSAQXHCNLHUH |
| 170. | MENFMHBHMOBH | 214. | DCBMKLIEXUBT |
| 171. | QJNGPDYGDVN | 215. | FFXVOCVJBYMI |
| 172. | PGCELPXHSRY | 216. | LONJDBDAKWWR |
| 173. | TELDYBWPVVIB | 217. | HHFXGBVMZMPS |
| 174. | EZGCCQYKBQSE | 218. | EZPTDSVURPWY |
| 175. | EZAPKNVIFYZSP | 219. | RTTJSOTNOCAD |
| 176. | JVYMPCXGHQRI | 220. | MRPWDJMNQMXI |
| 177. | SROKMZBKSEOY | 221. | CTMAYRLONPRQ |
| 178. | ANVZVBOAXVYE | 222. | TRFNXSADYFTG |
| 179. | XZKHKNLIQEOU | 223. | UIMUZLXANZLL |
| 180. | ECQPMTBIEOQM | 224. | KYBHFOZGKTTY |
| 181. | TSRBEXFBCQBQ | 225. | KGPKLPSDJEKZ |
| 182. | YNRIZLTQEYXM | 226. | OYYEPZYOLXNY |
| 183. | ZYOPYRYULJQO | 227. | NRURGSZOQEQU |
| 184. | QLABBFZWRDUE | 228. | RAJXNHUKDTXD |
| 185. | WXJGKJILRBP | 229. | ERKBAZJNZKKT |
| 186. | ARKXSCPLSLFL | 230. | HMWWGYRCRCWN |
| 187. | EDGVACXKWTP | 231. | AXGIIXRZIYSJ |
| 188. | MBZMGDZYZMNC | 232. | IZUMYWSNGOEB |
| 189. | ADKWPWOMZHIE | 233. | EKHKKOVTNBUK |
| 190. | XBTYBYUZJUFC | 234. | SHXXIYAVMSLH |
| 191. | AIZAXEMYKBPZ | 235. | PRTUVAKPCWHQ |
| 192. | VRFMIHTDIIMM | 236. | QLBALILBCLHX |
| 193. | SGVBGPOWJRDX | 237. | PSOCRJDYCWTY |
| 194. | RKDCQVNWLSOP | 238. | WVFMFMIWNHUX |
| 195. | UNCMMRSRWHRR | 239. | BSFBTOEGSBBC |
| 196. | SLJFMMZSGOWS | 240. | ZMZJVYVUAOUT |
| 197. | QNHMHUCPCYEN | 241. | WQYCAGPQRKCQ |
| 198. | RZBOJHCVHJEB | 242. | GWSIIRVRSRH |
| 199. | YSRRMULSDEGM | 243. | ZGEOWNDFCWCG |
| 200. | XDZASDJETKIJ | 244. | MLSQBGNTJLLK |
| 201. | IMBYQJDOBWHH | 245. | GCJJOYGRECWO |
| 202. | OXUPTRTTARJG | 246. | QVQAUGYBSHRO |
| 203. | QSJUPBBLWUAB | 247. | IORBHFTPGNTP |
| 204. | VRJDXWNDGIQI | 248. | FFZZCBDTNWAO |
| 205. | DJMRLEIXOQAF | 249. | KIMOBVVFEXKH |
| 206. | YIHEWZBXRAXL | 250. | ZWIVHMXXDWSI |
| 207. | YFGLDFKPNJSL | 251. | VVCKHCOMCROG |
| 208. | NATEQLYEXIWH | 252. | BOWGKCOIVIEC |
| 209. | HTOPTPJHNCPC | 253. | HEVXPJAEPUQM |
| 210. | OBQKJUNKRYJI | 254. | PMVETBAWHNBW |
| 211. | XXXBTXCAXQUO | 255. | WTNAOBWDLGPU |
| 212. | QFKMHJKXDJLK | 256. | HKEXWUGBVSYO |

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|------|---------------|------|---------------|
| 257. | DXYXIURKMVBP | 301. | STVRFWCTIVQW |
| 258. | QYPSNLQIENGL | 302. | YWRHMOILWGJA |
| 259. | TWNPUSMBCLZ | 303. | ETPFSFLNGYTT |
| 260. | VBYCGLBAQCHL | 304. | ORQVVDBKCLZS |
| 261. | JKDAPKYUPHBY | 305. | XKBSZBKTSJWX |
| 262. | JUKJTFWCROVZ | 306. | CELLPTMBZEZO |
| 263. | NCFKFPCCUWHR | 307. | WTBOLNMWPQBC |
| 264. | OYCFKRDFQKME | 308. | NHMGTBRCILHA |
| 265. | FVFIGGPEVGIC | 309. | TVZNXBPKDVEY |
| 266. | LBRMKGJWTXHQ | 310. | USNCYGNJOFGQ |
| 267. | LGRRRFLFWSYF | 311. | BCJJPMFCSBWZ |
| 268. | CRZXXNHUNQMP | 312. | XPMQNDDWNYKH |
| 269. | MTYSLAGSFNUQ | 313. | YJMUVNMBJIYS |
| 270. | VZYGSHYXYCP | 314. | REUWLUKQKQLM |
| 271. | NBDIEWXBXTSF | 315. | VHTGIRPMUFOO |
| 272. | XAVXXYCAWJLZ | 316. | VQRCCPEMAHDN |
| 273. | BDEYRJEGBEKK | 317. | ETGHUPGAZYQG |
| 274. | QPFAOXZCVTJE | 318. | AGBRZDJOXCKT |
| 275. | CRFZLKOHLIL | 319. | DZDSNIXXIKSR |
| 276. | KRPESWELFNUK | 320. | GODKFMFHEYDU |
| 277. | IBAHKKOIQBLL | 321. | QNCJNOGLUQQF |
| 278. | GGIDFQYHLIRW | 322. | CIZJSDJHBNCK |
| 279. | IFTDTYVUTRGF | 323. | FXGEASXHSYWH |
| 280. | LNPEFIBUWASX | 324. | FZUFQQVYQHUM |
| 281. | RGJAHICQPRIT | 325. | GHUUVYBHUSBC |
| 282. | TNHJNPGLEOZF | 326. | MSKCNKIOEATB |
| 283. | YKHMMORTGAOQ | 327. | KDSKRTFYUEUX |
| 284. | KUXKUPIAJACV | 328. | WRFFWXNSOQUV |
| 285. | MLJNMJMNODIS | 329. | RMRXCWTLGCSD |
| 286. | VKPZLTJHQRWD | 330. | UXSGZLSZYDRV |
| 287. | CTFLUAXSEVXA | 331. | EVQGFPPWYVYLW |
| 288. | ZSFRCUGNOCZU | 332. | TLDBHAZBQFLG |
| 289. | JHAKPZDCQINB | 333. | YTJJYHLGFSAU |
| 290. | DNNKULTABOFV | 334. | RQHXCFCZOMRQZ |
| 291. | PPWNNWXBFBQQS | 335. | EAWHWQIRWHWL |
| 292. | HIYUBCODOLYQ | 336. | YJXUBXMEAKPO |
| 293. | BVIMJDUHTJYU | 337. | WFTZOWDDPIRB |
| 294. | EQTMQEZXUHIW | 338. | BETJWROUZWHI |
| 295. | NPVAKUCZFUTA | 339. | UGHNTWWJTJFZ |
| 296. | NCGUNQRWBDNZ | 340. | SXOYXEYKGDIG |
| 297. | RJQNXBRHNNNU | 341. | RHGOGLBZHMMX |
| 298. | EPNUOFSHPJWT | 342. | GLMYIRVTUECC |
| 299. | KQDDYLBBFTYD | 343. | NVXNTWBTNAZD |
| 300. | EOMCEIMJHKBI | 344. | WJBQTNWWKLNN |

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|------|---------------|------|---------------|
| 345. | EFIGEQLNQEYT | 389. | SDNKBGGKIDFB |
| 346. | IVZKLYABLGBT | 390. | LECV CZRDFXYA |
| 347. | EGLVXQDHSTSB | 391. | IQLCDFWMOHHG |
| 348. | UVHULPNVKQIQ | 392. | SFYUYAIKWSBI |
| 349. | SZJATNCTTTDH | 393. | PPRNDJMIJUTD |
| 350. | QIVHFKUXWBKA | 394. | XCPKRWTZUVMG |
| 351. | QYTKJMWIRLTK | 395. | FEFQKVBXTCB |
| 352. | VDENNLOZNAQW | 396. | SGPVZHNJFUIL |
| 353. | GJOJYRKITPCQ | 397. | LIMEUWYJSFFO |
| 354. | GASCXSNCQCGA | 398. | MIEHEWTGXP AZ |
| 355. | QAYMKVCKEWUW | 399. | FCIJKBFNSFUN |
| 356. | CQZEIJGKYEQT | 400. | CHF WPBDVOMWN |
| 357. | LKLVGADBTVWB | 401. | HWNSUJJKELUL |
| 358. | CYZYSAYMVSIE | 402. | SDXLGIMDOSNW |
| 359. | ILHAYWSIBHQV | 403. | BALDHOMYZJDB |
| 360. | SHODKZVZEN OJ | 404. | MXARXAOSIZNY |
| 361. | TPOTPGBIJZWA | 405. | SAPCWVBDQTYJ |
| 362. | SZFIYMDVJGZP | 406. | RPEDCPORXRHB |
| 363. | CICWSINDQUMO | 407. | YIZZEPONQIXY |
| 364. | IWWFEPLGVLFW | 408. | PVLLIDPOWCAO |
| 365. | QNTBVL RBHZCJ | 409. | YTPAWHIXWFSV |
| 366. | KYBHAGNOKAJY | 410. | MXAPOPCCKQDLW |
| 367. | EDPPP WVXRUTE | 411. | PHZXKDAXHDKO |
| 368. | KEXQHSXZHSLV | 412. | CVZYEKPFQJOO |
| 369. | NNCNKKMRICNH | 413. | QARRNDPHEEQK |
| 370. | ZOHWK OFLUTCL | 414. | AAEVCNPRMVUH |
| 371. | TNQXWCKZRDFC | 415. | AZVQAXRCNALG |
| 372. | CSWKLXZZSTZ | 416. | RJDBMOYLZ FQN |
| 373. | SQGQYIXDGOJH | 417. | YTUTVUCVZUIQ |
| 374. | DFNGBQNI VFLM | 418. | SWBREMZWOQYB |
| 375. | DDDUVWXC FVYA | 419. | OHNCQDDDWFPL |
| 376. | FJFFVJDEFJKZ | 420. | HITJXI ENTWLK |
| 377. | BAGYIRCOMDTU | 421. | LQIOEXZJGLST |
| 378. | MMPIVIICADMQ | 422. | XAOXPZETELCT |
| 379. | FZJGVTFLEGXQ | 423. | URXRYPRYXRKF |
| 380. | QELFVWV VQZGV | 424. | PXYYYAUDYYIR |
| 381. | NGHMYGZFYVC | 425. | AAWXCJTRNIQM |
| 382. | PAYZDDXPPMVV | 426. | HFTSEWJSEFKI |
| 383. | SDXJAACLZBYY | 427. | YRZJFDARRAYY |
| 384. | RXVMPFTXPBVW | 428. | JMUIJSCMYWIB |
| 385. | ROZFNGWSMPAF | 429. | HIXCWVYLVLAG |
| 386. | DAKOPFVUFEJO | 430. | ZSGMWUXIMFVA |
| 387. | GVFYTEOHBWXN | 431. | UOKCSDVRKEHI |
| 388. | LTFOHGKRGQES | 432. | OZRGZAOSKNSR |

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|------|---------------|------|---------------|
| 433. | RUJUGGGJVCSL | 477. | DPYXIVGYOGRO |
| 434. | JTMELQRRHAPF | 478. | YSSBGQKOSWMC |
| 435. | FOZBLWUDPDFI | 479. | GTHALHNCBHYG |
| 436. | PFGWMBFIPBTR | 480. | QINDEDAXFCFD |
| 437. | VSIMKENXZMXH | 481. | YIHTMBZOBSSB |
| 438. | JVZHPPFIKAOP | 482. | EFERSRBPKIRU |
| 439. | FRFSGZAOXYAQ | 483. | LWPAJGSZRXT |
| 440. | MRRCCELTOUBF | 484. | MDYIANYGHBJU |
| 441. | GIQNHWTVVVGW | 485. | AWOEFNDNTHRB |
| 442. | YRVHKAGTLWDR | 486. | MYPQMMUCZWMR |
| 443. | CJLFRBZUMJBU | 487. | VZMBHHZTHPBE |
| 444. | LZBPPIQWPGSH | 488. | QFKMYAPBYOT |
| 445. | ZDYNQWISFJYP | 489. | YDUDLTGWTRIW |
| 446. | ATXWBOALYLLC | 490. | NWQAXVUKIIPF |
| 447. | ZTZELJLIKUPZ | 491. | MXJQVRFJIXLQ |
| 448. | QINIXKGTMRBB | 492. | ATHBAXRSCSGN |
| 449. | BCIGBZJOTNLF | 493. | GNULUBLHZGSJ |
| 450. | YUSBMPXVNUVS | 494. | HKSYPFSQVEG |
| 451. | SHMLEREXBIXF | 495. | LVDOJDKUBHU |
| 452. | FRDFOLJGOAIO | 496. | PYCYGANGEQKX |
| 453. | FICEZNTMWFMK | 497. | POACKCPRZATH |
| 454. | NNDRXZBJVZLV | 498. | MUCCQMMCHMRK |
| 455. | WPFSIQERBQIC | 499. | ISVVHNDGAXGO |
| 456. | YXONOBUAUDOX | 500. | LCEZHL YLSFAJ |
| 457. | IJAGRDARLNMT | 501. | WLKHRLCTPEJI |
| 458. | XTBH XIXUUREZ | 502. | PRUGDSBZUAIP |
| 459. | GUYSSSEBLCLTM | 503. | BXWGCVRJFSRT |
| 460. | HHSTSQAQFUSZ | 504. | ERXBOXNCBMUI |
| 461. | OLIFSMOBOQEL | 505. | LJTKAJRIFZFM |
| 462. | FKCISZWGPKYL | 506. | TYAXUILSIPCX |
| 463. | EFIUBAHAUVUD | 507. | LJFCRMYKUIVU |
| 464. | GNFPUKWWKYBH | 508. | LIQRFFNKRUCL |
| 465. | FQFOYFSDCLRN | 509. | RVHIMPUVNDLJ |
| 466. | NUFBWQZYAFPX | 510. | WDQVWSYTEYFI |
| 467. | SUJRBQPBAOVM | 511. | TTXEQDQKWEUZ |
| 468. | HNNGBEPCLSTD | 512. | BBEJOZKIKQZF |
| 469. | LAVXIYSAXXDK | 513. | FWRFUXTXCILZ |
| 470. | ZIKQQDWFVGRX | 514. | VENVNTEZGCKJ |
| 471. | PVWCTRXGCLKO | 515. | HTSOFNJFLCBU |
| 472. | SSAZHJVFNEXA | 516. | NYVVTFTFJPIL |
| 473. | UAJUNUMOGQDU | 517. | QTHRZEBUBITG |
| 474. | GVMADBCVGRGZH | 518. | UCWWGUVQPXPBP |
| 475. | EFJTURLFKYTL | 519. | DXLTDQYTZXKE |
| 476. | SKWYITQPDOJL | 520. | USDCJHMPXPQF |

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|------|---------------|------|---------------|
| 521. | KCNXKITANFAM | 565. | MEVEYEBJFSFA |
| 522. | WVRUGEGMAAJZ | 566. | RPFVZSFBYJO |
| 523. | SDLVWHUHCNKT | 567. | AHOAVEUBDSYI |
| 524. | ZRFRQZKGNTUI | 568. | SMEFVZDVMBJV |
| 525. | FMKUYLQJGMVU | 569. | CFRBPFESHOXO |
| 526. | GMNNXYXSFXLR | 570. | IGEUFNXTSGAO |
| 527. | MKMCLATCKRSW | 571. | SZRPYTXRNTNH |
| 528. | FZLIWRIZDMRX | 572. | XATGPLWGHNCI |
| 529. | YUHKAHNQJPPN | 573. | XMNHPXVLLWBV |
| 530. | JXBVZDWYMTLA | 574. | KPMGMKJQGPAC |
| 531. | WWZFDMMICIXT | 575. | WSXKGWOSKRNA |
| 532. | AEOKKBGEPXEC | 576. | JNMICFSTIDV |
| 533. | QGNUSLIUVNV | 577. | HIXUBHMPQPCK |
| 534. | UYXQPQYKBMII | 578. | YOJKUAEEQNJD |
| 535. | MOAJYEOQXIES | 579. | MNJXDVSSZHMJX |
| 536. | YOSSUKVUKMRJ | 580. | AJAXAHYVZAFV |
| 537. | BUUDUXBVLADH | 581. | NGIQLXOKRWJH |
| 538. | LSWUYVSTIOVH | 582. | OLVBIZZIKKFB |
| 539. | NFRDRQQSGBIL | 583. | QQFZKREZCLUL |
| 540. | EHWOYQDFIYPC | 584. | AFEJBHGSMIKI |
| 541. | BXDXTBUWZFDT | 585. | CRRJXZETOPOF |
| 542. | TLQKXQWYHAIL | 586. | FUQSUVIQZDRH |
| 543. | WCZDZZCIHSKI | 587. | CRHGRWXAHZEJ |
| 544. | SURUZWYFYAJP | 588. | LJQLNILABTTC |
| 545. | TGLVAIXKCJIC | 589. | CSBUYLMHVCPE |
| 546. | USKBTPPJIANA | 590. | AZCWUQJIAANA |
| 547. | EBMYRVITQNMZ | 591. | BMFULKRFCMEI |
| 548. | FDJWLADBNCEH | 592. | YZVSPISDNBPO |
| 549. | DZMPYEZALRWL | 593. | CKRHCWXHSPRS |
| 550. | PBMBFCQPRFRB | 594. | TIKUBXLXDFSJ |
| 551. | IVIDJSVGXIPR | 595. | RXKPWEWNNYWL |
| 552. | YWJGTJAKCGYL | 596. | ZXGZQYADVQKX |
| 553. | IOBRTSSNHEQZ | 597. | NOQDWYAXXHXX |
| 554. | QPAFRCZHMTUV | 598. | VTYBDCLDKBSS |
| 555. | QNPTMIJBWIHK | 599. | HFJKFCKFDQBC |
| 556. | YNBLACBXTCCO | 600. | SZEJQMAKMLF |
| 557. | BANCEEFTMGNY | 601. | HHZTUVHTOMHL |
| 558. | DZYJYVOZPXUF | 602. | WHLFQCUUFOWN |
| 559. | GOMPDJMKYFYY | 603. | BLLQNAZSRDAQ |
| 560. | PETHEYJHVCWVJ | 604. | RXWBPMZSWWDG |
| 561. | ENRVSTTAVNDO | 605. | ZSYZCDYLFUBD |
| 562. | KYOCJZLTZJTX | 606. | FQLNAKYFLDGA |
| 563. | PELGJWQHSYZP | 607. | XDOIQDEGNIIW |
| 564. | IXMSPCYMPYMC | 608. | MVTXPREHZMGN |

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|------|--------------|------|---------------|
| 609. | SCOJGKMLCXRJ | 653. | VHUNINCXQGAB |
| 610. | CASSMASQQEE | 654. | LIZXOMPIRDFR |
| 611. | XGQDJFRZHZST | 655. | VFXXURTIOYZS |
| 612. | ESTEZYASHRVN | 656. | SIVVGGZXABXM |
| 613. | NAQSSUKYMEIL | 657. | APJMMXBCKQFS |
| 614. | HBEHQOZZRKSU | 658. | CFZCNWTJWLUE |
| 615. | NHQLUOSQOAH | 659. | ELBNMIZKXZGD |
| 616. | YOSMCNTJVKIA | 660. | IFCIXLVDSTKS |
| 617. | DXHRKCNFIAQJ | 661. | LCNKTBKNLCEW |
| 618. | ORQMHJSVXXKB | 662. | OFMUQXRGVRHY |
| 619. | PCCJQKLJGJAT | 663. | AIZOHDIGZLRU |
| 620. | HSKAZLWQLKNX | 664. | WKRLBHGQBSYB |
| 621. | MSBQVGJKKFWU | 665. | IWCUDGFSTIHK |
| 622. | VHXNKFQBCWYW | 666. | WAYSETXOJKNR |
| 623. | IDNLGPUCZMPR | 667. | CCLKUCQPVCQR |
| 624. | JQHUAJSBXZCV | 668. | VZRVGSRCTVLG |
| 625. | TAFJUFDKEORV | 669. | TGEXLSIYSFXH |
| 626. | UKGGIJJBPZXG | 670. | LZIWIKTJXDNQ |
| 627. | OJRYCKIYIMIJ | 671. | ZZTGVPFPHFMO |
| 628. | BBSDPBWBEDWA | 672. | QMERYDGGQOZQF |
| 629. | YGSLNZACQNNR | 673. | SHXVGTRUNSIH |
| 630. | LHXVOETWCDBU | 674. | BGBESVFBBKVC |
| 631. | TTLMBLBYXCAX | 675. | IISOFYJANVWB |
| 632. | IYFLSUSKKQGX | 676. | OWSWZTDXHQVH |
| 633. | KGOHYFITCCMS | 677. | KMBQJJQDZWDT |
| 634. | UPZWIWPQHBCY | 678. | HNIGXDLHCBBK |
| 635. | FENHNLXPQQUE | 679. | LHJBEGAXUDY |
| 636. | OFKSIHUOYKJR | 680. | BYZPQIKHUORN |
| 637. | KLLSWMBHAMQI | 681. | OJAGELNHIOYA |
| 638. | JTYVCNTEZXCI | 682. | IHYWTCMZLFXU |
| 639. | DLTGSRSGRALY | 683. | SUESEDYLHYDV |
| 640. | CTHIYSLDQLXA | 684. | QZYZUVDTLDAF |
| 641. | YMQOCLHFHADT | 685. | WJIYBUWAQSAG |
| 642. | FOHYPOMDTKER | 686. | IWXCQSNQYQJD |
| 643. | FICCSSEQYTPU | 687. | TCBMFZZPKILB |
| 644. | OAUFUOLSCKXH | 688. | REAUCICNITUX |
| 645. | DFUKGRQQFMBM | 689. | UTNAFVZXQAXP |
| 646. | IRGCIFUJKTFB | 690. | MSNVVNADIFMO |
| 647. | ETJHMPRDIFAO | 691. | WKAROTBBCTZH |
| 648. | DARQQJZYORWP | 692. | AOZBLQFXNHCI |
| 649. | CHVVGCIDOARW | 693. | RHVLGUDTBLSM |
| 650. | RCNPNWDOMAZJ | 694. | CFXCKTURYAJL |
| 651. | ETOTAOSQHQMZ | 695. | ZIQAFYTCBHRT |
| 652. | RRIMGCVCXNAS | 696. | YVHKJMDMXUMS |

Leader.
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- | | | | |
|------|----------------|------|----------------|
| 697. | NGHQXNYYMZES | 741. | RCBCQWMXWKBO |
| 698. | SDEHZJSWMEJP | 742. | TZLRCAAUEYAK |
| 699. | AJBDCYKYEBDL | 743. | RRVMNROAYFJX |
| 700. | UHVGCUCISXIHC | 744. | FYOCQDGNWHST |
| 701. | CYVIFFUVEUAK | 745. | BQGTQBCKNQSA |
| 702. | PNRMAAPEFVOR | 746. | TAPDQZBHDKMU |
| 703. | ABFWFOQLOKGX | 747. | YIEJXOVDRATD |
| 704. | RTHRKJPQRQVN | 748. | CLCKJFDOCJFK |
| 705. | MDOEWNXWPYUA | 749. | SQCQHBFUPMJP |
| 706. | KWJRMFXWUEWW | 750. | IYZGZXQVTFIZ |
| 707. | YEMXNRAHXGJX | 751. | HZRVXTBUTVEK |
| 708. | EBOMQBPFQFP | 752. | OGZSBPTYJLWP |
| 709. | QTMROLMTXQDS | 753. | MCXHWLWDFSJI |
| 710. | SFJZWCHATGJ | 754. | RKHUFOABWNEH |
| 711. | ZHWSMWUHL LJ | 755. | HAWHLSCHSGRV |
| 712. | GMCTSGPLNLFY | 756. | DTVISOJNBPLY |
| 713. | SINJOMQAQZWH | 757. | DZTLURGEFBAZ |
| 714. | XEKHTCSBZQUZ | 758. | IZXBARXIEKFO |
| 715. | WQAAXFIXGZWP | 759. | YEXGYNYORNJS |
| 716. | JFFTPYODLZNZ | 760. | ZIHZQSSVBTVC |
| 717. | LHRDCAWDBBDW | 761. | GTJZFKBMBKXV |
| 718. | QPBQLDABSWXV | 762. | JZCNOPYVDWSZ |
| 719. | OARUUTUDHHTT | 763. | UECRMZYCEVBX |
| 720. | BRSYHLJFDXGJ | 764. | KNIBXOEKOZFD |
| 721. | JIQGXOANWKAZ | 765. | VNMTBOWJMOYD |
| 722. | WGYVYUFTVIYI | 766. | EPAYSNXWKEKW |
| 723. | BXQAYILZWUUU | 767. | KBXQTSHOIMZG |
| 724. | LGXLQEZDZMEP | 768. | JILTZTZLHCLI |
| 725. | CQITCIBLTWAS | 769. | COVSLZYQMULP |
| 726. | ISVMRQSLEMCQ | 770. | KJRWWJMHCTTL |
| 727. | LUIWERBLUOSN | 771. | ZVJHGDLDSTRK |
| 728. | HZJHOWMZUTJU | 772. | KDFLSNUZUIRP |
| 729. | ADSWGADJFTHQ | 773. | JJRNXLVTSCP |
| 730. | ICDOTTUFALBT | 774. | ZQILSWG YAQPP |
| 731. | BTTOANGZKEYB | 775. | VCFOHVCVWBWQ |
| 732. | XMSUKLRGFUYP | 776. | CREORXOXC MN Y |
| 733. | SNKR DOPQGA EV | 777. | NDBYJSIPUMYP |
| 734. | IBYLCNKNQHSF | 778. | CHSGCGMDGHGP |
| 735. | ZLKUNQLUJQOG | 779. | IUIJXKQTO DQON |
| 736. | QXWFQEMVQKSX | 780. | JVACHJYYELUM |
| 737. | RJICZFFJZWHO | 781. | FPMXTONINQMU |
| 738. | HEKDMXGYHATY | 782. | ZRFFOVTHOSIO |
| 739. | MEOTSWWCHKZM | 783. | SRXRLDCHBDJR |
| 740. | OOPQFACUTWGY | 784. | YLKBFHVWYQVM |

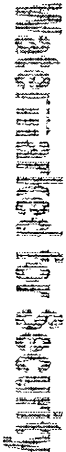
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- | | | | |
|------|---------------|------|---------------|
| 785. | WYIPVXAGFZLG | 829. | AJJKQRRAGZRC |
| 786. | CFKMWILUXKTO | 830. | SGEVTJSTHPBE |
| 787. | FDUBHNARFYSK | 831. | YVBPCDHGSKMO |
| 788. | KDYRNNQUEHYY | 832. | YDPRIEZDRVYQ |
| 789. | XSUVIHLDFIMG | 833. | ILRPGKSOZIXO |
| 790. | ZYWGITRFFWYD | 834. | MWEESCYRGCBK |
| 791. | ALQHIFQKJGXQ | 835. | EGNOTAXNWWWWE |
| 792. | JVRWWVSMKCKX | 836. | TTKOIZSPTBPT |
| 793. | JTAPJCYEAAHZ | 837. | YTBFEUEIRVXP |
| 794. | FCAJWSCRDITD | 838. | SDIKWQOUVZHL |
| 795. | GABEOKQULPLM | 839. | RUCMXDSEYEQM |
| 796. | JTBYYMLMFHOA | 840. | MZKSPEDAKLZW |
| 797. | FQKUKEEZYLHB | 841. | SQTVKDQCRCUJ |
| 798. | FOCPIPGKZQZA | 842. | FMIUGMUDOSLF |
| 799. | ZLBKWSHMCXGD | 843. | HKSISQIZWGKA |
| 800. | RVJAPQXNFWFM | 844. | LUIGISXFFZZV |
| 801. | SXGXKWSVDMYU | 845. | SZSKUAZCIIZB |
| 802. | KKICIZQQKFSW | 846. | RAPROHAYERGV |
| 803. | EAVZKXUSSPLN | 847. | QCAKXXEGGELM |
| 804. | HUKLMTRAQDAV | 848. | OFEBYDQLULMB |
| 805. | WRSQGWAMQPYQ | 849. | PZQIRTHAEVEP |
| 806. | QSKCCEKMDZUZ | 850. | ABZLKDLDLHWPM |
| 807. | BVRMLFXEHSTA | 851. | CJIHQPCCLZIVH |
| 808. | FHTVBANLGELF | 852. | LFYEMKFNKVSUW |
| 809. | IESZOMBIYZIR | 853. | XQVOEFZFBVDN |
| 810. | DQTRFTCTJOGI | 854. | KHWSRXOHXMQR |
| 811. | DDXPWMKQLAXT | 855. | UQBTTPGWYEHD |
| 812. | AZNDTMZAUVKV | 856. | CEWUNVYGLAAC |
| 813. | STIADUHYKHRR | 857. | SYRUFYXQYFDHT |
| 814. | XTNPJUYCJQWF | 858. | YEFZKYJQEUIH |
| 815. | KHHBVCYBPOCZ | 859. | JHCSVZLLDNXH |
| 816. | NPLGECANMGXL | 860. | BIZHQWSXKNAH |
| 817. | MYUTEABFBHFR | 861. | VOTNGAVGANCI |
| 818. | AKWKTEEGPHNF | 862. | IGCTCZLEHLLJ |
| 819. | GFFTKAHREBIT | 863. | KFNAXQTLKDOTS |
| 820. | PRCLZDOUWTEF | 864. | OIURFFMTAKHC |
| 821. | YNRIVZRHXHFAU | 865. | PSUNTJSLMXOO |
| 822. | FOZJOVTZWCSL | 866. | ZDZIQJRIVITVV |
| 823. | DHFTVVDRAMMB | 867. | YSKQNBKACDGZ |
| 824. | NHSKURGLUZLH | 868. | MPAQKLPKCAUXW |
| 825. | YREBGJNJZACO | 869. | VSVKKKFZCSJW |
| 826. | ESUKSLRHKJCM | 870. | HLVKCMQUZNPB |
| 827. | GQDZEPFDSXAH | 871. | ZGKVYYDFUEIV |
| 828. | SCMJSHMRGXTD | 872. | EWGLUCOGKBAX |

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- | | | | |
|------|--------------|------|---------------|
| 873. | MMGMFGBJRNSF | 917. | CKYMLJUPVYRV |
| 874. | MAKLXAKGVAKP | 918. | LZUHZHCGNOTX |
| 875. | ONEMXMJLYJJC | 919. | WEGXVXPZSMWI |
| 876. | OORUURSVRYXF | 920. | NTVUBPZRZDRO |
| 877. | SOOCNYVNLNRK | 921. | ZMVUTRLMWXYZT |
| 878. | WCBUSCBKFTEV | 922. | HVCPMRGEXJYB |
| 879. | BKLHBFEIWNZU | 923. | DMMTBWZQXOVT |
| 880. | MYDAKDOSGBCZ | 924. | WUZEPHNDHMP |
| 881. | NTZVOEOTCNGL | 925. | DDUMNMMLIXRB |
| 882. | WCKLZWUQGMVR | 926. | SIZVTAPNUKBM |
| 883. | EKRQXSQQWZBY | 927. | AEMTBOZCAIIP |
| 884. | OJWALVFXLSPU | 928. | WDYCPLCGUJTE |
| 885. | IEXOVQMUDQXV | 929. | TUNHWAAVFLKL |
| 886. | HGVWQYPSABFQ | 930. | XUJQPICNZBER |
| 887. | OFHANDIXGPUB | 931. | OIRAPNNKWARA |
| 888. | SAJWAGFSDJYR | 932. | ACMZTCFPDWBE |
| 889. | AWHFGMQFXYGD | 933. | OGAEHDVOWMRD |
| 890. | CVJIJXVKICY | 934. | ETONVWYBGVVB |
| 891. | HALLQFXCRBON | 935. | PNKMZLBWMQGF |
| 892. | QJIZJBGIWOWL | 936. | LNDBZBRLLLCD |
| 893. | KLXJAOLQGOUX | 937. | VBJFSXEGPGIA |
| 894. | MVOJYKIQUYKN | 938. | UWNWPCKBJOEE |
| 895. | YCNHCNCRABAR | 939. | VYANFWBDICNX |
| 896. | CNJXPBHVFOWB | 940. | CHSPCGACIPXU |
| 897. | UUFDHULIKMMT | 941. | JAHTHUKZFMHAH |
| 898. | BIFMCQGHEJMA | 942. | RYGDOCVOACJT |
| 899. | UKMJKGCHTGCL | 943. | XFWGFSAGKLUC |
| 900. | KZMGCZOLBDUF | 944. | FIRBFRRDMJFC |
| 901. | EPYTEULXKSYK | 945. | VYGOLUTKICSP |
| 902. | UMQECVYMUZZ | 946. | PXIOUTRJRZZJ |
| 903. | PYLFPTTIOREZ | 947. | RQQBZQVISBTX |
| 904. | WPGYRFDNRBOC | 948. | ZCUQBHVZRMGZ |
| 905. | LNOSJYKCLRFS | 949. | IIOGPMSAQGVD |
| 906. | SVNEPTREOSRL | 950. | WOHAZGTDECXA |
| 907. | LCXJGAUPFPSZ | 951. | PKFNEZGKLAME |
| 908. | SEBUMTPGLKTS | 952. | OGAUVTFZUXTJ |
| 909. | RFXQGYJNHZLA | 953. | RKGICVMVSVLN |
| 910. | TEWJVPLBKYZI | 954. | IQQVFQSFRRSN |
| 911. | CZYHHIJUTUXE | 955. | GWTWMAQRZQRQ |
| 912. | YFVHHCLLNDPJ | 956. | MKQGVRIEPXPP |
| 913. | WINRAECFKZFE | 957. | YTGEDSYKSWCT |
| 914. | VDOMUHLKJIML | 958. | SZNJNUTYEQLX |
| 915. | SEMIQINIDABE | 959. | GMLEDMDBLMCR |
| 916. | OGAHGSKCPFFD | 960. | CUXQQKLUHMS |

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- | | | | |
|-------|---------------|-------|--------------|
| 961. | BFVKIAUGXAHX | 1005. | KOTGJWJCBYUA |
| 962. | LKWJHCJOHSA | 1006. | KVHIPXBZBJGB |
| 963. | XNOVVTQMHHJG | 1007. | OLJSMIXBLEOE |
| 964. | BGYPZDXXJAME | 1008. | AJVJJPZRPTGN |
| 965. | MVLZESXESPEK | 1009. | LCQHMDBLVOPQ |
| 966. | HIZCZIIIGYKB | 1010. | BJHFGMVPCMDQ |
| 967. | IKNKXPTTZPAF | 1011. | EHQUSQKLBABM |
| 968. | JWHLXBSYDYZS | 1012. | KUHKAARWHIKJ |
| 969. | CRDNBQXQJBXI | 1013. | IQJENENVEXBO |
| 970. | KHDPNUJSRNPR | 1014. | KCDWZMRMIIH |
| 971. | PSUNEXZZAGGN | 1015. | DCQCCYHRRKDY |
| 972. | JVCLNOWAPDWY | 1016. | ZSWHCCCPSZAV |
| 973. | NQYHRDXAXTUQ | 1017. | NQNIANIRRRSS |
| 974. | YUSSQZGIAWQD | 1018. | ZRMFWZVVLJQY |
| 975. | POBJKEIRBPSW | 1019. | VKVLZTSXCYXS |
| 976. | ALAJRINRYKMW | 1020. | SGMZXTGILUKT |
| 977. | AJGAVHNTKYHP | 1021. | THYPMNWJJHSL |
| 978. | CPILVUUUKMTO | 1022. | FKQBAEDGJWOR |
| 979. | QPHWZEKFCCFI | 1023. | VCYECJYKMGZD |
| 980. | CHLUYURULASK | 1024. | YRFZKYLJDRTA |
| 981. | RFVOLMILFYYZ | 1025. | CAUESOGGQHAJ |
| 982. | RINVZPMOTENN | 1026. | ZQHDUZLFLUOH |
| 983. | KIYOTQLMLPXP | 1027. | AEETSXBWZXGV |
| 984. | BVKAXELNSJBF | 1028. | VIRRVNEUTPO |
| 985. | IURKWCJNBVI | 1029. | WDCSADIGJNAG |
| 986. | LZNF TBZSQNPM | 1030. | RIQYGXURPJXW |
| 987. | YJZIFKPDHLP | 1031. | TPOHLEYMEFOH |
| 988. | GYACXCYMQDVV | 1032. | MVURRUVKOLZR |
| 989. | KDYNCWNSWJIO | 1033. | KITNWFAWITDJ |
| 990. | KHEWIVNMJAZI | 1034. | MUIMCPNUBUZR |
| 991. | OMZRZQBEKFYP | 1035. | LBQUFYJBULIT |
| 992. | YSAFXCIAKZXA | 1036. | ROQDZUDZOHHZ |
| 993. | MONUEBNYDEIW | 1037. | DQQOGSUOUVCO |
| 994. | TQEESDSWPPIV | 1038. | UXPSCPLGCRC |
| 995. | QOWCINUAZJAV | 1039. | ICKTRXPOUZWY |
| 996. | OUOPREQLORAS | 1040. | LPLRPZHRDEOA |
| 997. | TRNDEF LUSJGW | 1041. | TVGAOKSDSCNF |
| 998. | JQQXJTERCCSC | 1042. | PMWIFYQSIVRM |
| 999. | UUQZGBEYCBBA | 1043. | GMOQIZQNHTZT |
| 1000. | IRGZDLIAASSW | 1044. | LQDIOWWQJNNW |
| 1001. | NOFOROFKEMZB | 1045. | PSSKDWRHESJ |
| 1002. | MWTRXPXHEXLD | 1046. | YEHDQKLGLITY |
| 1003. | RHEHZCBZIDOR | 1047. | TTZXNDQAIHJB |
| 1004. | KHPATDAXAPZU | 1048. | NPQNZQSOMTIE |

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- | | |
|--------------------|---------------------|
| 1049. VCCXACEQZANO | 1093. SCEGHTUSWIRR |
| 1050. RWCRXKTKEDEH | 1094. NLXJOQRTVBLX |
| 1051. YOVIKQYEVBE0 | 1095. CROGZECNGEJG |
| 1052. QIWSNLTWVHVM | 1096. UWEJPMZWWRSR |
| 1053. LIYQJSYVEMPS | 1097. GZGYKFLNEZBW |
| 1054. OXLQFCPJXNDZ | 1098. NSCTBNDXCGHF |
| 1055. SLXNGSLBMBUT | 1099. BEGGGKKZDDQG |
| 1056. MXDQYBKCAWIJ | 1100. TLPHIQZJMGMN |
| 1057. HORLJSSLVUQK | 1101. LTVMQYHAEHSD |
| 1058. AGYUNMTOVPVK | 1102. NFUXDNVRBPOW |
| 1059. ZPVVMJMSLRP | 1103. GITLQZRXRQV |
| 1060. ZLMMUEJMULTM | 1104. NGJNRXMTPKIO |
| 1061. VBGSOZUCPKQD | 1105. YOBAEDXEELXV |
| 1062. XMTWCYOWGHKU | 1106. LGXMSAPUVBJL |
| 1063. DUDHVTVCCKQD | 1107. LDHMKXYLTLYW |
| 1064. IAODLLEFMPA | 1108. AHBKIDSFJFE |
| 1065. XHVZBWJDUXPL | 1109. JYCEMYLKTVD |
| 1066. QOFSMVMWFEJW | 1110. EEMMMNXRNRCN |
| 1067. ZRBYGJVZSISM | 1111. PKGKAHBCTWDN |
| 1068. FIBESISEEATL | 1112. ZILMYOQHVPCM |
| 1069. YULYLPFUSSD | 1113. SCXXCSXLIUIX |
| 1070. QQMBNCEYBJEG | 1114. MQGKJLGBSDAF |
| 1071. VPFSDXBLZMAA | 1115. NYXJLOWVHPNB |
| 1072. PSDNRJPPIWWR | 1116. TYWKLALFROIJ |
| 1073. QGOYYKEPOHNR | 1117. PRAKYZBRCDWL |
| 1074. SURUDXFADYDK | 1118. QLEHEPWZPRQ |
| 1075. KFNEPLVWJFKX | 1119. VWZFQAEUKEEL |
| 1076. LGKAHFEPSXOF | 1120. MFMVVSYPHPTXE |
| 1077. WQYKVQYOFDHW | 1121. UMGPMTRLIMLV |
| 1078. RPWRQWJXFTQP | 1122. GWUHTNKEPWS |
| 1079. NREESKKDVEHN | 1123. CMGQWIRRPFKE |
| 1080. LHJVIZLCECLU | 1124. SKRKKBKJKESU |
| 1081. XIZDZAMOGGIV | 1125. SZPXTAMASOGC |
| 1082. XNEASSVIQYWJ | 1126. LULQFBKATSLE |
| 1083. LTMEMRDLBOOE | 1127. PECGCVLHMI |
| 1084. YSPFGZWKXFOH | 1128. JVVHCVEYXLBC |
| 1085. UPVQBQXHSAMU | 1129. RUNFBGIFYXGO |
| 1086. SKNENPVRZJFV | 1130. FKKEYBEPZVV |
| 1087. CMAXBZCBJHNC | 1131. NZAUVIUQCVLH |
| 1088. ERYXFCYSKJHI | 1132. CJZLRTHXWOU |
| 1089. VQCDNLFSNVMS | 1133. JUWTIZZQAKKX |
| 1090. UCCJEYOCCRR | 1134. MOUXXSSADNBB |
| 1091. UQAYZDYFXVFZ | 1135. OYVULVZSPAIN |
| 1092. UYDJYSSVYLM | 1136. WIKXCGTJYGP |

Leader.
Appendix D - Background Intellectual Property

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- | | |
|--------------------|---------------------|
| 1137. IGZZQIFUJMJL | 1181. HCDXDBFDIWKM |
| 1138. NXSEQWKAKZEX | 1182. EJAYCXIUCEDR |
| 1139. INCCABZHZCAI | 1183. LKIZUTJWRBTH |
| 1140. ZNXUSEPRVIDC | 1184. QDUIHPIPKKHU |
| 1141. YZOSZCCSCIGE | 1185. OMTSTBFTKZFN |
| 1142. FAWSRYEUSEWU | 1186. UBHSGOYLALJW |
| 1143. EHJVXZWRRQJW | 1187. VCUJVJPNZASP |
| 1144. VUVGAMXTYKMM | 1188. QXJKRSUJVWVX |
| 1145. YZWJGWVZEBXB | 1189. MBJROPXKHFLN |
| 1146. WVVYAEYEZIKT | 1190. PAUYJGGQKVSU |
| 1147. SVGLOKMGJRXE | 1191. JMUSFFUWSSVJ |
| 1148. NDDEHTAHBORW | 1192. DRGCJGRFNVUU |
| 1149. QLHHQSASXFLG | 1193. JXEHBVYEVGSHK |
| 1150. RVIEEWGKJSTS | 1194. NUJCYIFCEYJG |
| 1151. HCEUWRRLNLSC | 1195. XVPUFXYESMJC |
| 1152. OVTYBFBJJHWO | 1196. NAGKGVNPAQKC |
| 1153. BKCBGEBCLXIN | 1197. MULVOVZFEAEU |
| 1154. YJCHOZLZXFLJ | 1198. YHXFQVZIQOE |
| 1155. HVQZBFSZRDJL | 1199. JPLCXVNOZOAH |
| 1156. JEHYYCPAENZB | 1200. VSIGILXUJEZA |
| 1157. NNWEFRJWRCGK | 1201. IZLLIXZELFKA |
| 1158. ENHGJQZRDAPD | 1202. RCCBPBWHLWRO |
| 1159. DVVJPRSODLBP | 1203. ZDVFNNSPWPJE |
| 1160. KGVTMURAIQVP | 1204. MXURTPMURHC |
| 1161. ROJPSGFIWLNL | 1205. GEFRGBPSAPHL |
| 1162. PBIFMQEVBXGW | 1206. KQEZVVIPTJFP |
| 1163. ULMBLXXLLETJ | 1207. JNEUCUBDNJWM |
| 1164. BKXSYPNHHWNM | 1208. QWPTJTVMUAXP |
| 1165. WEOCTUQATJDC | 1209. ZPENOGYVSCMP |
| 1166. JHOBQHFFOCCJ | 1210. HYCMIEPRWKOA |
| 1167. EUUVSDXDPCLG | 1211. QOTWGMHTAHGN |
| 1168. EUCDKNEVPPWB | 1212. WTJFJKQTGLVU |
| 1169. XNGLRZMPFVWL | 1213. VAVHOKHOEVGU |
| 1170. FDZTAVOQTIYT | 1214. FBTGDZMNGZNE |
| 1171. GUNUEVWOCAGY | 1215. BBBKDNUOGVSB |
| 1172. FNGXOFLIAYZN | 1216. GPRQUPQLAVPV |
| 1173. CQOLOYRLVKRX | 1217. XNMZNOKUCOHD |
| 1174. DSCTMEBXPABH | 1218. IDDIGEJQKSYE |
| 1175. XBIXDZKHSEQX | 1219. CIJGUOOJPALA |
| 1176. CXQUZERMPXKI | 1220. RPXWZGRJSGET |
| 1177. WICXCBWKNQVT | 1221. CQLPFUOJJNEL |
| 1178. ALBHYYAGXUYV | 1222. JSOICQOSUGYT |
| 1179. CUATTVJSFDZI | 1223. LMFWJGHHDVYM |
| 1180. INOWXISOAYBU | 1224. FXGQGGWNLSBB |

Leader.
Not Recommended for Security

APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY
RELATED TO LLNL CASE NO. TC-2030-01, PAGE 26 OF 26

- | | | | |
|-------|--------------|-------|--------------|
| 1225. | LTDYLLGAFGIL | 1269. | KQDOJQUFEPPO |
| 1226. | WZEYSJGSLPZD | 1270. | QFIXMNYNYJEP |
| 1227. | NHPQWAZFPDRU | 1271. | DUOPYPKNHQVO |
| 1228. | SZLPGJUGBTZQ | 1272. | QIPYDSKSCEEL |
| 1229. | CHFYDAACSLXI | 1273. | PEUKTOGUCGJS |
| 1230. | RMHMVIQQIQRN | 1274. | BDGEIWYPLCYC |
| 1231. | CBUDFWVCDGLB | 1275. | OCHZIHGJDZTK |
| 1232. | MRPKCGVPCLGJ | 1276. | GENWQXCJRVJT |
| 1233. | BYYCLXBHEPHB | 1277. | FWBGRFWSBEDU |
| 1234. | VZKOAQPMCVBG | 1278. | EHIZQNUXNABS |
| 1235. | ZPASHYEAYXFF | 1279. | HLIKNLAUZQFW |
| 1236. | DILGEAZRFKRG | 1280. | HDJTARSQHRAF |
| 1237. | ZNGMBKHRCYOC | 1281. | IQJMCDHMQAMW |
| 1238. | FBXASYFZXOUG | 1282. | KYFXTBSSAGMT |
| 1239. | SOPWLQWSHZQG | 1283. | TSVTBKSGUJAJ |
| 1240. | PQAEDVVZFKKH | 1284. | TPUYHPAXPRUH |
| 1241. | HPVHUCIIXIU | 1285. | HUSDMGLLWJGZ |
| 1242. | CWVXTXCNZTIJ | 1286. | GYTWKTWZTQFJ |
| 1243. | YKGRYSCAXWWC | 1287. | KYMQLEMWPHDP |
| 1244. | UBMQUCCTVSOI | 1288. | PHBVSTGSDXKY |
| 1245. | TPXLCRKVOVJU | 1289. | JXACELWQXTKA |
| 1246. | CKXZWALIROAS | 1290. | RFKROBBMBRZF |
| 1247. | DJYRFKCQNTLF | 1291. | MCNTXNKWAXCF |
| 1248. | UWKCIYDSUNPW | 1292. | USMVJQWZHJUO |
| 1249. | XOVDQWNHZSJE | 1293. | IWISKEPVXMBV |
| 1250. | RTVVWSIGEMYV | 1294. | FJKZIUNPSIPD |
| 1251. | CILRVPGUTGXA | 1295. | JSZFPKILFXWM |
| 1252. | LGQGKTZDTJPG | 1296. | ENLXVINEXJUT |
| 1253. | UKHVRWXGTZWV | 1297. | HCTSDXBEOUOR |
| 1254. | BOXAKKYYGOQJ | 1298. | LGTDBVGCZJSU |
| 1255. | TDWGVAOUZJPK | 1299. | BOPTTQRDDCRE |
| 1256. | CGCYBIMXGWZO | 1300. | EIANZPYRUUCY |
| 1257. | ECYFOVEVIXVH | 1301. | LUCZXTZFAAWY |
| 1258. | WIAEYYIALCMQ | 1302. | RONOVWWXINJA |
| 1259. | MVYDIFKVMNGT | 1303. | REAOYUDVQERD |
| 1260. | JZAKSPLIJNPK | 1304. | JXCVLBUWZZZB |
| 1261. | CPONRINEDJPE | 1305. | VMPLVPZIUPSO |
| 1262. | CCSLIBVBGVGN | 1306. | IYIGUMTSKNJH |
| 1263. | MVCINAELVSDS | 1307. | QRYLABEQILNU |
| 1264. | MLCGYCOSDXHO | 1308. | BNIAVGEEKYCC |
| 1265. | MUQKFEHQEKVQ | 1309. | UHECZWKVQABS |
| 1266. | AUQMOULSHGDJ | 1310. | FWENUGGSYAUF |
| 1267. | WNQUFEKITPZX | 1311. | ZOFKHJQEIBNQ |
| 1268. | JPQJBEQYHYAT | 1312. | FXPIOJNOROS |

Leader.
Abuse of Proprietary Rights

APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY
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- | | |
|--------------------|---------------------|
| 1313. TFSYQGPMVMCV | 1357. ETUEAPCSYOWL |
| 1314. AEDPDZGIQFWY | 1358. SZFSTUTJLJIX |
| 1315. JMXHOTGRHWMK | 1359. WDFDRSYGXHYMA |
| 1316. UNWFKGUWCOLR | 1360. XFBMTIKJZCWP |
| 1317. SZOBBIHGMBNA | 1361. YPCIHMRBMOEA |
| 1318. DDVKKKWASUJH | 1362. CKOENLZRDPV |
| 1319. HGUUHGZVBILI | 1363. YCYYYCNXXNYI |
| 1320. JZYMDXGNHSZS | 1364. YKMBEDFUWYLK |
| 1321. EWHJOQZAAWST | 1365. JOUBVPMVVTMB |
| 1322. IJGWPZHDEHX | 1366. ZVTGSMCNEPME |
| 1323. CCIYWRKZDNZW | 1367. PEHQHMKNYFKV |
| 1324. UGNOYLWGERIG | 1368. JVVLTCTWTDWS |
| 1325. TPTUQTFPUYLI | 1369. MWDKLLTAWXQG |
| 1326. EVBJXVKHJYSS | 1370. HPGEAIUPSRHW |
| 1327. KBVUNNQKLINB | 1371. SMFPGCGBAJJP |
| 1328. BMRTBYKITONH | 1372. EUXNEEUWJUDC |
| 1329. BQNWCAGYVBBH | 1373. NIHJXFQREMY |
| 1330. TVGARDIGKACI | 1374. ZAAUSXQPOSSB |
| 1331. TBDDQMMVRLPU | 1375. OKGNVPDQTRVR |
| 1332. RTZHTOWQPEO | 1376. DRFIITXAQFLT |
| 1333. RGDRXNWTTBVW | 1377. OFPMPCSVJYOS |
| 1334. MEOYYJLVNFHR | 1378. JNMFJMFVBWIK |
| 1335. YNUHJLQELFRR | 1379. TTNAPHZMWXZT |
| 1336. VSVPHJUGXOII | 1380. BKMXFVIIENLR |
| 1337. NLWWVPLHHJQG | 1381. ZDIYIKYGNXV |
| 1338. HOHFYPGPBLOQ | 1382. BKCDFABFZYHZ |
| 1339. FAWQWKWTHUKB | 1383. IBYKCYBVLBJD |
| 1340. OVEGGNLKMMVH | 1384. WNAHRJQWQJTM |
| 1341. AQHMVUBRYCRU | 1385. LWYREYCTDABX |
| 1342. BHWNZUJQGUZY | 1386. OFVUDJWVGGLJ |
| 1343. DQFIFFAZZGGT | 1387. YBCNGCDFFOZZ |
| 1344. ZTFKRUFALWV | 1388. DZLJFOGMFVBV |
| 1345. MSLMHPIWJNZW | 1389. DDBTZRYHDTTR |
| 1346. WZOXQRQFPRGB | 1390. UKARLZWOJMQJ |
| 1347. AQWZLOCFVHBO | 1391. TJMPRIFUOAPP |
| 1348. CRBORCSMIONX | 1392. GAMTEZTWJRCF |
| 1349. PBNQELIXAMNX | 1393. BUIGIEGABQIO |
| 1350. ONKUTXFSIAOE | 1394. QFHYPDPTGVJRU |
| 1351. CTTRDPCYASSE | 1395. NLKYKARSDWQY |
| 1352. NSBDUNLKMOKR | 1396. WWTUKIGGJMPN |
| 1353. AWOUDGVMWYLE | 1397. FIXHBRYLWCBA |
| 1354. KETVFYMBXPCE | 1398. MELHUMQMOUIR |
| 1355. UNEKQPTYCPSK | 1399. ZWVBYWXRMICG |
| 1356. DJTHMLVAMBOZ | 1400. CRNVHFVJIFDJ |

Leader.



APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY
RELATED TO LLNL CASE NO. TC-2030-01, PAGE 28 OF 28

- | | |
|---------------------|--------------------|
| 1401. SBVIECKEGEIF | 1445. BYHVINYZCJMA |
| 1402. EKCJUIZETOSG | 1446. ODDSJAQVRKRG |
| 1403. BJSTFPWRYFJM | 1447. ADRKJXUPMZSM |
| 1404. SHQMMFVBJKIH | 1448. FWLFLWUKEPGI |
| 1405. ELJYBWCZJZDN | 1449. TLNEIYZVYOLP |
| 1406. CLGYNJENYHLM | 1450. YALSRKCKTBTD |
| 1407. VWJVGBLNJJVW | 1451. ZVLWZULOQMIO |
| 1408. CVKFPXYFUyme | 1452. VQMPTSQVHQHF |
| 1409. IKVHQUFZXZUFT | 1453. LOXUGBQZNMXN |
| 1410. SLAZWJYZMIGP | 1454. LEUXKDRJHVFX |
| 1411. AKLQJBOVIAZS | 1455. LIFYNOIBQHIC |
| 1412. OWNUIRKSDPZN | 1456. YADDLYEPHFF |
| 1413. FCEKJPBBMTAN | 1457. NJLBJFUYKQCF |
| 1414. GPHUIUCUUJD | 1458. LPDPEWCKYHOV |
| 1415. LRFEDCFMPKEJ | 1459. ZEXARNAKIEGF |
| 1416. PDTERZTFXAYS | 1460. CAFOCQNFREA |
| 1417. BXMSVYFZWOER | 1461. AEHVKPCDYTZR |
| 1418. PSZMVDVFPEKGH | 1462. AEPDCZJVZHKM |
| 1419. VXIFFVZZWVXU | 1463. KVHOCIBYDFCA |
| 1420. ZIUTSNFCDPBP | 1464. SEDRPHKYURJA |
| 1421. VHOJSDWRCKXN | 1465. ZQVAZZHXKCTL |
| 1422. OZLXXITJYRHX | 1466. KGLCNACOPCTD |
| 1423. HFTPFLAXMYBU | 1467. VBGBQPFJVYEH |
| 1424. DIGODRHZSUPH | 1468. CDXKESJHHJEG |
| 1425. JVJETVJFIOKJ | 1469. MMIAOJPEMIUM |
| 1426. HEIVFRCWQMIT | 1470. VMRKPODBAQIE |
| 1427. LWRPJBjHRFKR | 1471. IOCMXGZQIHJO |
| 1428. YRWVZJAOEWIF | 1472. QYPZSEJZOSVZ |
| 1429. MYUWKMIWMTON | 1473. SWVSEDYHCAHW |
| 1430. LIZOUJBYMLGA | 1474. GGGYITYWFHUP |
| 1431. WGBFXISVJZYA | 1475. WPBIAGMLOLOD |
| 1432. TLCNWFWXWJPR | 1476. KKOBZMMBXHPT |
| 1433. TWJVbXQJQMDD | 1477. WYBDKXFNLZGO |
| 1434. XZIFYUVFBAGF | 1478. SPTTKVBKcIGV |
| 1435. QKkCQMCFLCQO | 1479. FGUXXMqNXyTL |
| 1436. WXKKKIWDFYPU | 1480. AJWJIRMOCKOT |
| 1437. XYWAZCMEDLXM | 1481. HLAfHSWXPZZX |
| 1438. LVMAWMRgBDQJ | 1482. LKRVDNIQNTHt |
| 1439. IMWBZKCGOMLM | 1483. VNGBVNJFMKUM |
| 1440. VZHLCLCKICVW | 1484. OBOGYLJSMFSW |
| 1441. AJIKQCKAHSWO | 1485. IQZRZEFETUVA |
| 1442. XAXPWRIQSWPW | 1486. DCTDFNFPLDAL |
| 1443. YXWCKFCBJLAU | 1487. HGENIBCvTKTD |
| 1444. KWHWYMVVWSIPE | 1488. AMOMUHBBYFRJ |

Leader.
Not
intended
for
Security

APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY
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- | | |
|--------------------|---------------------|
| 1489. IJZCSMOHCMCL | 1533. EKJTCPYCXBKY |
| 1490. WWREFEXFZDEA | 1534. DYMRBDQITEJV |
| 1491. WDOVISNLSULK | 1535. KTEHIKYSYFX |
| 1492. DHPTGGBVPIYG | 1536. GISMHCNRYWXW |
| 1493. XAXDKCDZQDEH | 1537. FHCAUUBRUHDM |
| 1494. EDMOJXPJYYPT | 1538. ZVFGTYZNDDBYP |
| 1495. FDDIHHGGUWDR | 1539. UXPZOA OYSIHS |
| 1496. KPRVDURSPGXX | 1540. AAEDFMOOEVAF |
| 1497. TOAXYXZJQMIH | 1541. TJROUYWLKORB |
| 1498. MKWJBQABRCSJ | 1542. WWBOBHQKEAFN |
| 1499. MACQXROERSDA | 1543. BLMAKDOZDIXC |
| 1500. XQDCTCLBAUYO | 1544. KGXRJTMQYZDK |
| 1501. CUOGXBCSWJWZ | 1545. DJDIKUSINCPR |
| 1502. LXCWWLVBANAZ | 1546. CTTXTAUWOKTH |
| 1503. GIEQLPBYNUUZ | 1547. HRUNIDRITFBN |
| 1504. NLRRRDQCQKZM | 1548. PFTBECRHYIAB |
| 1505. ZGNQURSXXGJQ | 1549. OUTRVTYTHTSX |
| 1506. BNSSRYLWXNTN | 1550. JFNTUGXBTVJB |
| 1507. XQOSRMFOMWNG | 1551. UKQTUJNKENRF |
| 1508. KNQQBWLCLVCT | 1552. YLFQFUIUDZIK |
| 1509. JUUWRQUHMDXA | 1553. HOUVXUKJCQVD |
| 1510. HSMUHZWKWXA | 1554. ZLSEKHCYTYTO |
| 1511. TDSLLMFOSRLZ | 1555. WGVETFVSDYRV |
| 1512. QTTADRLDQZJQ | 1556. UKLGMSUNQGXX |
| 1513. ZDBWDZARWQIF | 1557. VELKFRGEEJYL |
| 1514. JXTNKEUDFLWL | 1558. JXVSCSXDMIIM |
| 1515. MASXGBYZQAZN | 1559. WQYIROVWIVNR |
| 1516. ZCSINZQOWPTD | 1560. VGUPFWTEQITN |
| 1517. MRZWZZXNVPLT | 1561. FRHSSTISWDAI |
| 1518. NHXLDRGKBWDW | 1562. IZFOMDYPNIJM |
| 1519. VSPTNJEJRPNI | 1563. VWHNVOEDMHYA |
| 1520. JPFTKTILPGEF | 1564. SIOZVTQWIMXV |
| 1521. EQYGICTLDSGJ | 1565. WYUAOQBWOBRG |
| 1522. MBUXWDZOVJBU | 1566. JQVEBIQYJSEW |
| 1523. KLUDSFDAHHH | 1567. PEWAEHGSFEJT |
| 1524. GTDCARQSGWFA | 1568. EUZZCJNEBEP |
| 1525. QKTZILAQQIOU | 1569. QNCPRFKWWSF |
| 1526. SUUVWPGICVWG | 1570. JONBFYXBUXMK |
| 1527. VANSYCCMYKFA | 1571. NMWCAOETIADN |
| 1528. UUJFQVDMDRIX | 1572. VCJECMMMPXXD |
| 1529. FDYDYXTUGRWC | 1573. ZNATOJMOBRAU |
| 1530. BSMTDZXUBQVA | 1574. JJNLOBLGXJHE |
| 1531. YYOSJIUFIBTC | 1575. HHNYDDGVDXBX |
| 1532. PCHOJDVNZYMA | 1576. SNXUOJCEIMNR |

Leader.
Unauthorized for Security
Access of Confidential

APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY
RELATED TO LLNL CASE NO. TC-2030-01, PAGE 30 OF 30

- 1577. DFQBQLKJXDDL
- 1578. RBWJHUDSLVCZ
- 1579. BKMBHATQHUOJ
- 1580. WCPUWXSFCNGZ
- 1581. SZTLTHSPBNTI
- 1582. XHZTJPDQAJV
- 1583. AHGCAMKICPNW
- 1584. HFQTNEBEYIHZ
- 1585. WAPSDWQXCZXE
- 1586. MKAAOZREWHSO
- 1587. EGGUFLSXHATT
- 1588. MDPLRDISCLV
- 1589. XVGHZXSQMDVP
- 1590. NPXQGOGMKJOQ
- 1591. EWBTGFYVJFRB
- 1592. NNTGKCTBLZYZ
- 1593. ZRFWGSSTPXBK
- 1594. HLUDBCPHJGFR
- 1595. LDDQYDKYQSQQ
- 1596. LCVLWNMJQXHP
- 1597. KEGFRDCSSHKZ
- 1598. HVNELZMWZQQY
- 1599. TRTVDMNVMEFA
- 1600. QKDYIKYVZNCB
- 1601. FQWGRORNDMWI
- 1602. GAXDFSYPYDU
- 1603. GZVKUURGGYHI
- 1604. YLVJOTWLXBWZ
- 1605. FYEKUOPHDQEQ
- 1606. AVUCSKPTQRBI
- 1607. HWIGIIPFMGMZ
- 1608. LLIZLDBCAOKH
- 1609. LREBKLEQGZVR
- 1610. OZZCWVKQJHHK
- 1611. JAYBJVMHNNWD
- 1612. TAKFYFMRVFAA
- 1613. OJHYSOZSNCUS
- 1614. VLVDJNAFLSGK
- 1615. YGVNCWYVPGLX
- 1616. NTACUUSAQASQ
- 1617. UEZQPEDKCLNK
- 1618. AQISVZWGQAVC
- 1619. OKURBMHPTCMO
- 1620. VOAZDRAOIOPH
- 1621. YKKMAHKVYRFB
- 1622. IBAIIBUTIDOW
- 1623. IHYBLPJZBUVF
- 1624. YARBUIYWXZLAI
- 1625. DGNETTAJSZFF
- 1626. RLJBUHSFICMG
- 1627. UVJKQXRTADMZ
- 1628. CGKZEMTVBZZG
- 1629. RBOWOKJUMSJA
- 1630. CFALKZXMQRLL
- 1631. CAFIBLZAAPYK
- 1632. KPADPJHRSFBM
- 1633. PKFGFRWDFQKM
- 1634. BTKOORALCPTL
- 1635. ZFDEANDETGWY
- 1636. VEMCUCIAHSJO
- 1637. NXIMRHGXWXZR
- 1638. ZHQKKUCOKMTG
- 1639. GIDNASCAHBEX
- 1640. HVEAWCMQEIOG
- 1641. VGXQAETSMCBX
- 1642. WPYMOHAKYOII
- 1643. SSJFLEKYIUPY
- 1644. TCKCYIQQUGWK
- 1645. VXXKSZIHFRPZ
- 1646. ZTVYGBEQIJUD
- 1647. OZGTMBNDDUUI
- 1648. WYRLZUEZZMOM
- 1649. ORMGUOJHYNLH
- 1650. XGNZLVGBUIER
- 1651. KVHMGZSKUYUB
- 1652. OIWNVXHECPPL
- 1653. NWIIDLOHURIW
- 1654. FOJPRRFIELQT
- 1655. OKRFBVUZJEBB
- 1656. GTCQPZYGMLFQ
- 1657. ZOAEVSLQJUV
- 1658. EOETASBRRTZJ
- 1659. INKSRMBRFOOW
- 1660. HOJFMCABWNCN
- 1661. YRGVQVSYAFOD
- 1662. IHOJLVNJEWLN
- 1663. XFLKRVOHRTKJ
- 1664. CBIHXLQIAJIC

Leader
Proprietary for Security

Smart Camera 1
dev-1.12c



Jun 7 201



IPAC VERSION
RED

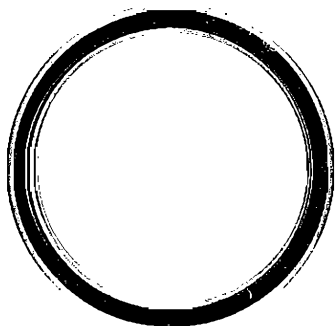
MADE IN JAPAN

FUJIFILM
Smart Cam II

source code

RED

9/03



APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY
RELATED TO LLNL CASE NO. TC-2030-01, PAGE 31 OF 31

- | | | | |
|-------|---------------|-------|---------------|
| 1665. | ZJNMNSZQPPKD | 1709. | GDVHHQYAHWDT |
| 1666. | PQRPOJSYOMNO | 1710. | VJWNGOBHVAIY |
| 1667. | OBYTBMVSBZBR | 1711. | DQWUKGBZOUTI |
| 1668. | PPCDZQUKXBGF | 1712. | UDBURVRPBQMD |
| 1669. | SNLRLUJGPFBF | 1713. | JICZPSTWPURI |
| 1670. | SCFXZLORZXN | 1714. | PJYUSLOIPXCU |
| 1671. | CUOCVWROLUNG | 1715. | TKAKJDMXKQSW |
| 1672. | JCATJJDDPZEB | 1716. | TEUPOOCTJQMM |
| 1673. | EWLKOGIVGKBI | 1717. | BLXOUESFJFBL |
| 1674. | GWXLDQFIPVRS | 1718. | HRLCSUFDPZSL |
| 1675. | UMWEHWSZHMQN | 1719. | GKNBGMRPNDGE |
| 1676. | WRNXBHMIXBJE | 1720. | WIXHTVRTTAVL |
| 1677. | SPQCXKAGPCAK | 1721. | OISWLFXBZVLL |
| 1678. | KMFJZGJKLXMU | 1722. | JKBNEGLLNBSM |
| 1679. | FKOGUWNGASPK | 1723. | RLWYGWYJOKON |
| 1680. | ORRFUMDSZIEI | 1724. | LJQJNWWFTQIB |
| 1681. | USZFMIFUPFVX | 1725. | DYQCJJAAKEPJ |
| 1682. | HTKBJLJZTTUX | 1726. | WADHGOIOENRA |
| 1683. | OZDSFETHHEFA | 1727. | VCBOCXLLBXZV |
| 1684. | MXTMWFVBXEGYR | 1728. | KODSAMGJVNZQ |
| 1685. | UDRIZUTZWETN | 1729. | VQMVTXLKZOLN |
| 1686. | TWTHNMFKUIGG | 1730. | LGVWDBDGDKNE |
| 1687. | RQEELDGTOMOM | 1731. | BTTHSPFTKMPL |
| 1688. | XBFDIRZTIUZU | 1732. | RAWXNZXKDSLTL |
| 1689. | BMRSUJFWPODP | 1733. | WZPODUUXBVIN |
| 1690. | GCDDTQAAXDKC | 1734. | ZWTKRMSVNOUZ |
| 1691. | LGCYYZXSOGK | 1735. | FYDADIMSFBFX |
| 1692. | QXFNPRPOOSFI | 1736. | XPMTZKKAJZQV |
| 1693. | XCKEASUWIDN | 1737. | GFGCMBGGWRXV |
| 1694. | PTIFMCFJQHVD | 1738. | IDPRYGUBCEVP |
| 1695. | JBEEEEHIOHAU | 1739. | FEJBTHWKEIPL |
| 1696. | FIXRIYLSFNLC | 1740. | OXUYXGFTUFMR |
| 1697. | BZFQCUVWLWSB | 1741. | ZCWYXIVDFXUV |
| 1698. | PWVPAEAYJOJY | 1742. | GLSAPNWWYMYA |
| 1699. | COVARWTFRFYW | 1743. | KORKMKASJBBC |
| 1700. | ENKAVOVVHKDR | 1744. | VFHNAMWKOUUCV |
| 1701. | YBFEIHQFBRPG | 1745. | SSWCXTQCOCRF |
| 1702. | DKKNZPCJQEEU | 1746. | TIVLILHUHEES |
| 1703. | XMZWQCGRAFYG | 1747. | RIHGAIROVKD |
| 1704. | IMWRCAEKDDYM | 1748. | UMGQAXMOYKNF |
| 1705. | NWLYSMKRLKPK | 1749. | KZBNBVJZQKFA |
| 1706. | YVMKBVXHJCAZ | 1750. | NHMKLBUMGZPL |
| 1707. | GDKTVJWOYHKB | 1751. | XQOIJHOWOMOK |
| 1708. | JLJYAOVIEXBF | 1752. | VVPRIFSIBWFB |

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| 1753. | LEAZTITGUFBC | 1797. | DECMGNKGOVXY |
| 1754. | SSXKCYLTLMZB | 1798. | HDLMBDQYCXPB |
| 1755. | QNOUFWHHLVCY | 1799. | OONMQVZQCORU |
| 1756. | JKAFFIYKBWCS | 1800. | TWZGDCVFJZRD |
| 1757. | WQMBKULMNVGZ | 1801. | NXIXXDJOXEYF |
| 1758. | OXQOABAGZUVL | 1802. | HCXFMTRXEZJM |
| 1759. | EBQAEGMFHDPN | 1803. | UCVQTOTWILIE |
| 1760. | HEPKADRBRSSP | 1804. | YJZXIVDZWXXR |
| 1761. | HYUGRPTQBQFO | 1805. | XXBAFKMECGIQ |
| 1762. | EEVPPNXSOAWF | 1806. | WFPCLLEBBRUS |
| 1763. | SKGDJSOIBVJR | 1807. | WJBRYHXDVYTF |
| 1764. | IWSDDUXNBAUB | 1808. | YAPSCHFBEQBK |
| 1765. | ZJEPGHYPHUYR | 1809. | RJCDQTNYKJSG |
| 1766. | BMTYFPJBCLPW | 1810. | SEZYUUNAFWWR |
| 1767. | ULEUSWDRKOQT | 1811. | TZOCQEVSBZNL |
| 1768. | QWXSRTAXATVY | 1812. | JFQZXORHJFYC |
| 1769. | APSZNXVWORXP | 1813. | KSKRJVVYNPFV |
| 1770. | GJGNAIKDBTZD | 1814. | POIYDPSNWFWI |
| 1771. | BUUUNDTMTANR | 1815. | YRDSDOIKYDII |
| 1772. | IFSJIDNWOLIL | 1816. | CJUXLXYZUGMI |
| 1773. | XAQUOJZFHGK | 1817. | UOQVJFYRAKJG |
| 1774. | AFRWTSYLNIOX | 1818. | FZNEAYSIRJTV |
| 1775. | MZVCJZOSZOKK | 1819. | IUEYJHQANHVZ |
| 1776. | SSPYLAPOSFAG | 1820. | TDEFLTVOVBXZ |
| 1777. | RMLMDTQOXMDC | 1821. | KMMPKQWJKVQS |
| 1778. | XPAWBNDYEHOO | 1822. | MEAQNQEITNZX |
| 1779. | WMXCPOVZUGRB | 1823. | IYMLAVTSCSQG |
| 1780. | UOVKLWXWQQZW | 1824. | MWFBGJUISIQN |
| 1781. | WGJLOWFUZIIB | 1825. | HKEJCTQNKAI |
| 1782. | BLWCDHBWHUBV | 1826. | OSFRHMSGDVUT |
| 1783. | QMCQBGPASGHN | 1827. | YAGIWOEUVBDF |
| 1784. | JPRCMXLLESLD | 1828. | TCSGTTKVZWQS |
| 1785. | YLEWMCLUUONS | 1829. | KMAGVMNTSPPT |
| 1786. | BHZWKMABHEIJ | 1830. | UVSNSYCDYZHW |
| 1787. | UEXKRHOJOEXO | 1831. | CNVPMWUBCYDV |
| 1788. | UFWPWQBCHHJJ | 1832. | WCTDMGVLGSWX |
| 1789. | YEAYSMKJQKZM | 1833. | KIELWHFECGTX |
| 1790. | DWUCMBDJQCFU | 1834. | YKQHVLJKIVTY |
| 1791. | KDGSZMOWTHWO | 1835. | JHQVNNEJEKVG |
| 1792. | SHGEXYVSSAUY | 1836. | OIBXKFMDUOPL |
| 1793. | ZCLTOVSQRIMR | 1837. | INYUUZKGGKIEJ |
| 1794. | OVQJNJSRCMKI | 1838. | UNOYQIFCAJG |
| 1795. | FGRKESARLVXO | 1839. | CKDGAWIAORYK |
| 1796. | ZELVLSYNQBQC | 1840. | GNSUGMDFADKR |

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| 1841. IJIHTEXPVDEJ | 1885. GXGOZXLMVIYG |
| 1842. AWOSGPONXADC | 1886. SUEEFYIXTIDT |
| 1843. YKKTQITEGHVR | 1887. GRUECINZRZUQ |
| 1844. EWPYCGHHVUNR | 1888. NRGNYOYEIVWF |
| 1845. KTGIKERXJRKR | 1889. UKBJAOYABMLB |
| 1846. DWRRSSBLVVJF | 1890. XISFYLAIOUXH |
| 1847. JCCTCSGHOQVV | 1891. USFNLITOSDDZ |
| 1848. QMKEEVAXVFZS | 1892. QLJNVFYXHKFH |
| 1849. ETCCAQSCTEYP | 1893. GRIRRDNNPEEK |
| 1850. GVCOIUELNRBG | 1894. GAYNHRBVKUZY |
| 1851. HVROMMGBHSGC | 1895. XNKXJEBVQNCO |
| 1852. FLWAXEHUIGHL | 1896. YOWNYYRXOAKG |
| 1853. RPNGLORFNGXU | 1897. DEWURWOVEQAH |
| 1854. KHTIEELKXUMJ | 1898. EFIKFQEWCDIZ |
| 1855. SMMJNMREXGJL | 1899. TZVIALHUKVQZ |
| 1856. XCOTKXNGHBRN | 1900. WFXUZXOVLJCY |
| 1857. LOKCGGYCISBH | 1901. HAVKMYLZNIUO |
| 1858. RLKKAMGDBVIO | 1902. FKCREHVJEQYR |
| 1859. UZYREAEOKDMH | 1903. JOBBBEAGOEBT |
| 1860. KSJTVGWGMDYO | 1904. XKMJACOJQBGG |
| 1861. RVQEUFJPYIQU | 1905. BDBVCYLSOPVO |
| 1862. GHSISVFNTYRP | 1906. FDYSPYNRCNHP |
| 1863. VQTGGSEXOPWE | 1907. PVKHZBHSGUFW |
| 1864. UIVNNFIAZHLT | 1908. GVLRPDBMNCME |
| 1865. UKODMCVAAXIF | 1909. RKYBUSBTWREJ |
| 1866. PWIQSSEOIICZ | 1910. XVABJKKKWIGC |
| 1867. WGSOZSXWOZDB | 1911. UMJVSAXQPOOP |
| 1868. FBILVNZZLZQ | 1912. MKZYCRMDWULG |
| 1869. GUHUEZMFHGTG | 1913. NCBTQOONRUQJ |
| 1870. JIGLVC'TNCTDN | 1914. QIDFPATORHBH |
| 1871. ZAICJLRELIAH | 1915. IUBHIGIQXRRS |
| 1872. UVJJVYDPWXIH | 1916. JNESXODOHUOD |
| 1873. OVMJTYQOGYTJ | 1917. XJPYLWNGSXHM |
| 1874. FVDEMOMZUBFI | 1918. OYZTTNZNRVHO |
| 1875. OYZMNCWWZRI | 1919. BPVLHSNRCBYB |
| 1876. QXABPWJLJJMD | 1920. ZCIERHFGUUTO |
| 1877. VNMMOCEPQXSO | 1921. QOQJWQBWLTX |
| 1878. LDVHWTRXRWSR | 1922. NQYPJICZPEJX |
| 1879. QTOMWHXDTIOE | 1923. FGVVGRZHEJSL |
| 1880. RNATPXNTCSFS | 1924. QPPXWJQKETLU |
| 1881. TPOBNDYEWIVW | 1925. TCOONMWSZGVW |
| 1882. OMXYZWRQPMPW | 1926. NRFMDXKUXPLP |
| 1883. EGTXYQYJJPWO | 1927. WTMPMPLMKZCY |
| 1884. ALJFRHUAGBBI | 1928. UDRBPFSVPKEO |

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| 1929. QLNJBDELDILL | 1969. IPJBPKGPAUUF |
| 1930. OCBJEPKLZXZK | 1970. CAJUKIUUHQWT |
| 1931. JKEOOQPCHPGR | 1971. FAHIYYGTVBHR |
| 1932. QWCIOADRNCDS | 1972. AHUIDKWRGHYL |
| 1933. AYEGIJKIGHOJ | 1973. LARTRLCWYZEX |
| 1934. HUYXQDEXEBKL | 1974. JWUNEOXVWNWB |
| 1935. ZZIKTYLHDJRL | 1975. GNDHOEKAOTEN |
| 1936. RRRRHECIMEZJ | 1976. BSJIQOFUCWWR |
| 1937. KNIMUHBBOJFL | 1977. CMALXDOYANNS |
| 1938. UKOPGKFASPEZ | 1978. BMNFHAHJMUIP |
| 1939. AGNYMQPNNEML | 1979. RTVFMLBJBSPI |
| 1940. PSOBJEKKHTLF | 1980. IOWXGWERGTUT |
| 1941. YGEEZQCDDOBX | 1981. KXVSSZKIREBD |
| 1942. YTNOGBBPVUEU | 1982. WRZYGAPCUXQ |
| 1943. BDXTHYWUNCYQ | 1983. UVZXMBXWUINX |
| 1944. DMCQJPMMPNBD | 1984. HQMTXNEYRYPB |
| 1945. KVLQBEIGMWOJ | 1985. YCOBBPPLIJML |
| 1946. GDASITAGAFIF | 1986. LQCUMRGJVJCG |
| 1947. CAUYCYBABJVL | 1987. OUWOCLSAVNBM |
| 1948. GPVHYIVBKDCM | 1988. MQZIPPOZSCSR |
| 1949. INEVKMKYSRBI | 1989. VMOFLLRCDPPG |
| 1950. PACGTDCLIYZG | 1990. UTWNPEYXICLH |
| 1951. HBERKGFQHHHP | 1991. NJZONUGHRFKV |
| 1952. VKCIEQILJZPU | 1992. OFOLJPGOBSY |
| 1953. SXFEVWPJZHLW | 1993. FGMWEMNCKNWX |
| 1954. KMDJFMDFRJW | 1994. RHFJFIYIUMZZ |
| 1955. VYMTSDKTFBCS | 1995. VQUONXSEHCGH |
| 1956. YCOCDBMEOFFQ | 1996. ENKMKUWITQDY |
| 1957. SIHNMFHRRKMG | 1997. UIRETXMUXOBQ |
| 1958. KAGZEKBWLFVK | 1998. MHSPJAFOEWIX |
| 1959. YRPKAZJHRQVW | 1999. HVFDNCJOYVGV |
| 1960. CXIEHYBBSWHN | 2000. SVRICMJYHMKS |
| 1961. LZNAOIFGJPRZ | 2001. JZFFUGBXYPW |
| 1962. LMSZFCEMCJJ | 2002. DNEHKTYXJUDS |
| 1963. ZRAUPTKJCTMI | 2003. AENBUJLDBAMG |
| 1964. ATOCNAUUWJCM | 2004. IUADWHUWIWGU |
| 1965. DWNMIXYRGYFO | 2005. FABNVGZZWHYN |
| 1966. ZPIOAZREAHZR | 2006. WTJDOKZHWZZF |
| 1967. UNHZONKURQYD | 2007. RKXMSYMQHCP |
| 1968. ZDHKATEMYXGY | 2008. RJAZWKAZBMNW |

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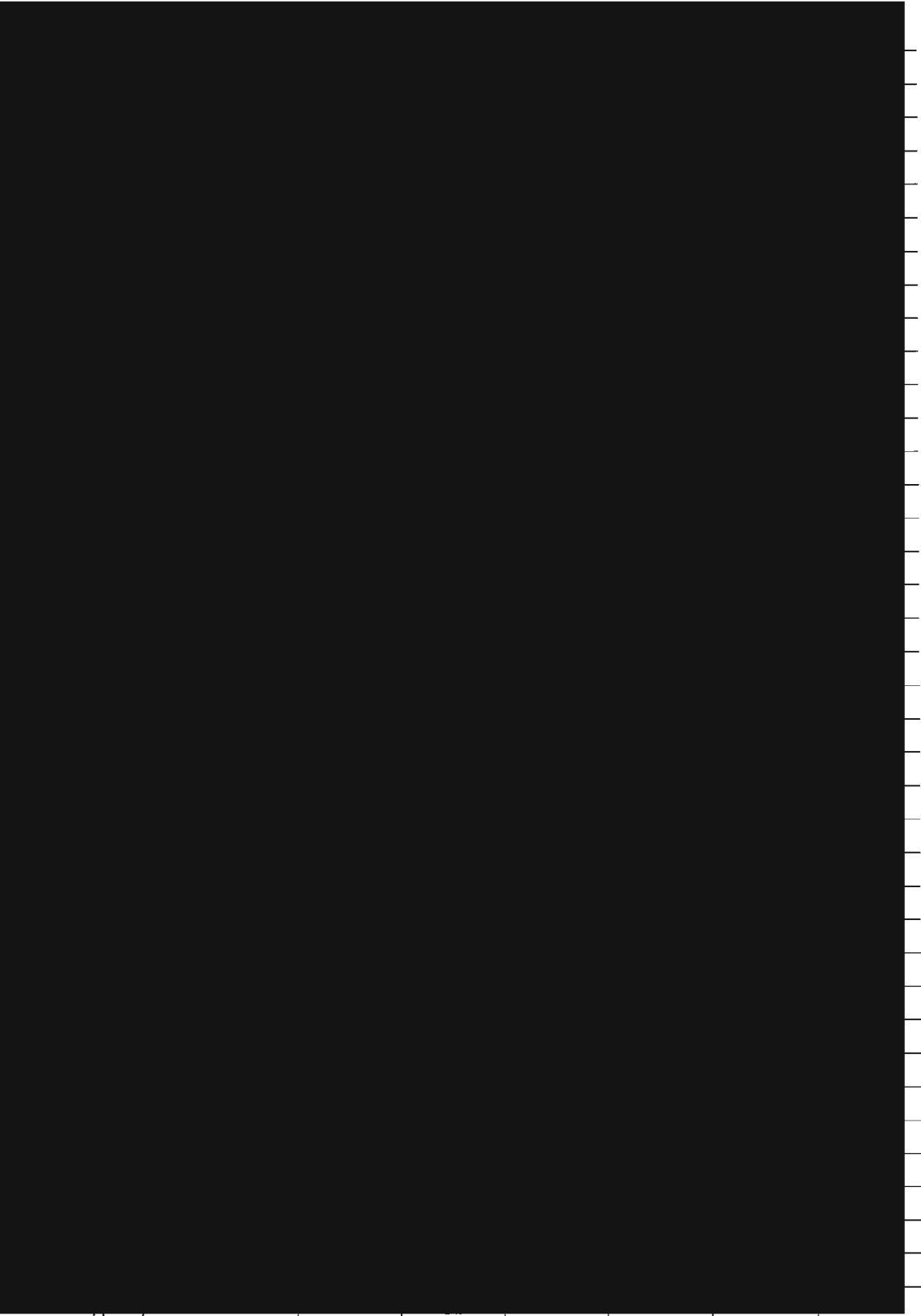
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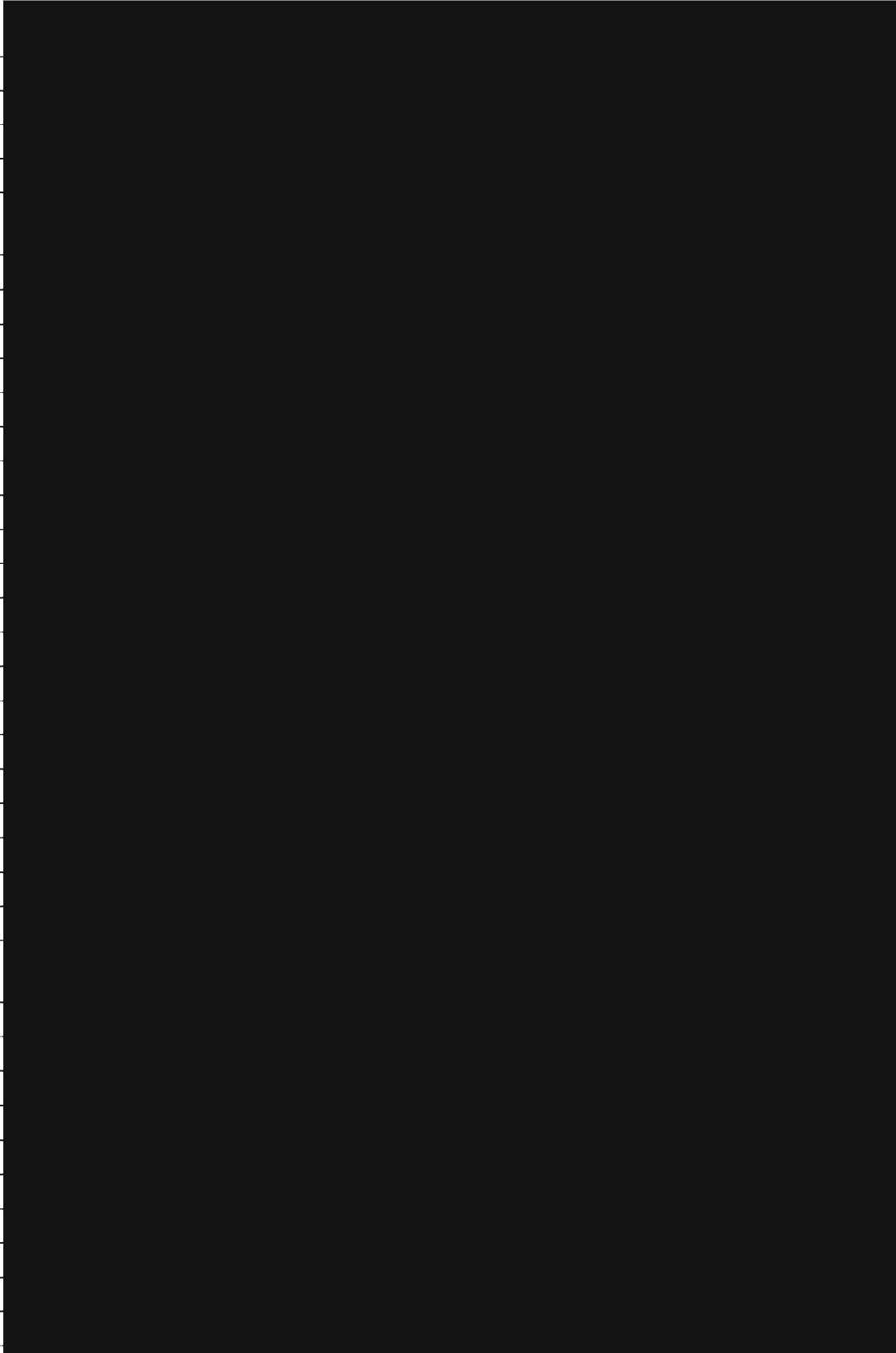
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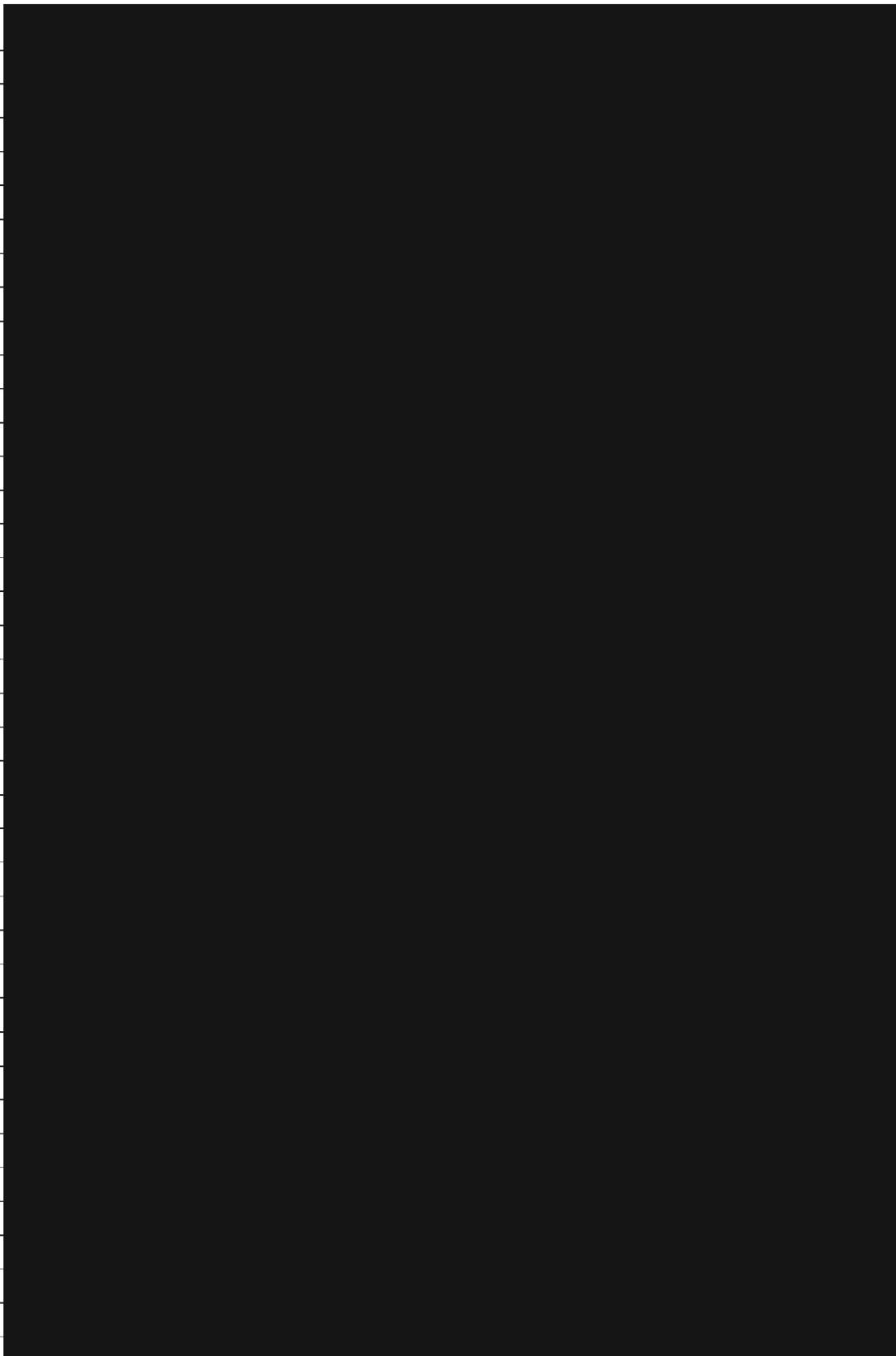
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