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INTELLECTUAL PROPERTY LAW

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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

JUN 1 0 2002
BY:

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

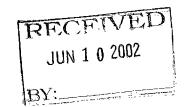
### LEADER TECHNOLOGIES, LLC

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 60701.PM1219 CRADA 3/20 TC-2030-01 LEADER

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 60701.PM1219 CRADA 4/20 TC-2030-01 LEADER

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. <u>Product Liability</u>

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.

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- 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;

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- (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. <u>Export Control</u>

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.

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## 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 60701.PM1219 CRADA 10/20 TC-2030-01 LEADER

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.

[RECEIVED]

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## 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 60701.PM1219 CRADA 11/20 TC-2030-01 LEADER

- 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. <u>Title to Subject Inventions</u>

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, nontransferable, 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.

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#### 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
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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. <u>DOE March-In Rights</u>

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>U.S. Competitiveness</u>

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, 60701.PM1219 CRADA 15/20 TC-2030-01 LEADER

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. <u>Assignment of Personnel</u>

- 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

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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. <u>Administration of the CRADA</u>

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.

60701.PM1219 CRADA 17/20 TC-2030-01 LEADER

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

 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>U.S. Mail Only:</u> FedEx, UPS, Freight:

LEADER TECHNOLOGIES, LLC

Spectrum Commerce Center

921 Eastwind Drive, Suite 118

LEADER TECHNOLOGIES, LLC

Spectrum Commerce Center

921 Eastwind Drive, Suite 118

Westerville, OH 43081 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. <u>Disputes</u>

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. <u>Termination</u>

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 REGE	NTS: TH	IE REGENTS OF THE UNIVERSITY
	OF	CALIFORNIA
BY:	D and	nu
NAME: J	e Arey !	Nadsworth
TITLE: <u>Lawre</u>	nce Livermor	rector for Science and Technology e National Laboratory
DATE:	3/19/02	<del>_</del>
FOR PARTICIPA	ANT: LE	ADER TECHNOLOGIES, LLC

BY:

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 System' 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.

(¹Clearinghouse is defined by Merriam-Webster's Collegiate Dictionary "2 a central agency for the collection, classification, and distribution especially of information; broader: an informal channel for distributing information or assistance." Online <a href="http://www.m-wcom.cgi-bm">http://www.m-wcom.cgi-bm</a> 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 <u>Smart Camera</u> technology and LEADER's communications network backbone will be integrated and tested. This is an anticipated multiphase 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:

#### <u>Task 1 - Assemble Smart Cameras</u> (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.

<u>Task 3 - Supply Data Clearinghouse Software Application</u> (LEADER)

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

## <u>Task 4 - Assemble and Test a Prototype LLNL Smart Camera Digital Video</u> <u>Surveillance System Connected to a LEADER Software Backbone</u> (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

## <u>Task 5 – Develop Software Interfaces</u> (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 I 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											- 	11	 								
5. Develop Software Interfaces									i Vijs	13,34											
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

Email: bwhiteman@leader.com

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:

- 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 TH	E REGENTS: THE REGENTS OF THE UNIVERSITY
	OF CALIFORNIA
BY:	Mano
name:\	C. Bruce Tarter
TITLE:	Director, Lawrence Livermore National Laboratory
DATE:	3/19/02
	·
FOR PAI	RTICIPANT: LEADER TECHNOLOGIES, LLC
BY:	o miles / - / 1/ relieur
NAME:	Michael T. McKibben
TITLE:	Chairman & CEO
DATE:	2/8/2002
	, ,

### 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.	
710.	LeaderSoftwareNetwork	754.	LeaderWebLab
711.	LeaderSpellCheck	755.	Leader Web Leader board
712.	LeaderStaging	756.	Leader WebParent
713.	LeaderStakeholder	757.	LeaderWebSecondary
714.	LeaderStandard	758.	LeaderWebSibling
715.	LeaderStorage	759.	LeaderWebTertiary
716.	LeaderStore	760.	LeaderWhisper
717.	LeaderStrategy	761.	Leader ZipNote
718.	LeaderStreamingMedia	761. 762.	LRDP
719.	LeaderStructure	763.	LRDSP
720.	LeaderSupport	764.	Meeting Channel
721.	LeaderSurveillance	765.	Meeting Channel
722.	LeaderSurvey	766.	My Context
723.	LeaderSystem	767.	My Home Portal
724.	LeaderTable	768.	My Leader Context
725.	Leader Table Leader Tactic		•
725. 726.	Leader Tache Leader Task	769.	My Leader Profile
		770.	My Leaderboards
727.	LeaderTelephone	771.	My Office Portal
728.	LeaderTelephony	772.	The first fully scaleable
729.	LeaderTemplate		leadership platform for
730.	LeaderText		communicating and banking
731.	LeaderThemes		intellectual capital.
732.	LeaderThumbnail	773.	The first work environment
733.	LeaderTools		centered on strategy.
734.	LeaderTouch-once	774.	The Idea Registry
735.	LeaderTraining	775.	The insight to achieve.
736.	LeaderTrust	776.	The Intellectual Capital
737.	LeaderTV		Company
738.	LeaderUnifiedMessaging	777.	The Internet's First Intellectual



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

	Capital Bank	785.	Web Tertiary
778.	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		

### 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.	HETHIOVICD CT	41.	NDVNEDOCEDIIW
2.	HFTHJQYICRST ZGUMSKHIPTID	41. 42.	NPXNFPQCEDHW PUUBHHUGSPEP
3.	WAWQECJTWDHY	42. 43.	
<i>3</i> . 4.		43. 44.	ZDSQCEFOYDSO
5.	PRWMQFSEFDZI QEAKHYABIOPQ	44. 45.	UEOLVVXXIOQP
<i>5</i> . <i>6</i> .	JLMBCRTQIOXK		UZTHMHALSMDO
7.		46.	OHIZAGKTZWCU
7. 8.	TASEVOGLMJDH HXIESYLNKAUD	47.	EXPFUQZNRVDY
9.		48.	EMMIXSAXLELI
9. 10.	YNZSRHFMNEZD	49.	HGNDIUWQGXPX
	WKYHLPIRJLLW	50.	SGBUHQZKZLOC
11.	QGIFIPIPPKFN	51.	SUWMVNFFSUDR
12.	XQVBYYGGZWHY	52.	WFJBHGKHZOHM
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.	XQPPHHEMRDPE
21.	XQAUXLAEBLWT	61.	FETFZMHTIYLH
22.	RHABIDQCVHWV	62.	KXRAQVMRIKPO
23.	IMHSPFWPINPQ	63.	MHSXEZTJUWXA
24.	NAPRTCSLKVNC	64.	RUYKFSHPVJEY
25.	OXXEEGFGQILW	65.	PQBETWCOTYWD
26.	SRYAPIBAMBOL	66.	XVCSRIKLSRUN
27.	DMWMEJIGEUVY	67.	IKSVRWLZOQED
28.	UJGRQSHJKPKF	68.	UQKZTSUYAUEG
29.	WIDSRSYUNFOS	69.	GCVIVRTATJNP
30.	XSEPEVEMZRVD	70.	QDSUQNYRBDCC
31.	OFQAHJFNFLZU	71.	BSGEVCYYKSUI
32.	QVMADQYDUDGI	72.	YKPGYAKYXBQL
33.	GANFBNZJHGKN	73.	BNOQVXOVIQTO
34.	UXDFZXELGXBJ	74.	GALODXYUMZJT
35.	IGUAHEJQFSFY	75.	WJVWNAYBFGDT
36.	PCZLFVLYPLIZ	76.	VUYGGWPMOKQC
37.	MQOACDGPPTYJ	77.	QIDNAGFBEPES
38.	OEKCEQGVUDYX	78.	FAICYTEBPTBI
39.	STLLAABXCXFY	79.	LGCNOMLFRDLE
40.	NXRNDKVRQAXC	80.	XYWMQMNWIANM

### APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY RELATED TO LLNL CASE NO. TC-2030-01, PAGE 13 OF 13

0.1	DIZACA (III A (DA (D	100	TRICRELICATION
81.	INKNCMHLMRMD	125.	TPISPFUCNGHA
82.	HIMIWPPQLZTK	126.	JPTOLVYDDXYF
83.	GSVWWORJBBCR	127.	WMBHWNPTXUET
84.	GNBHFPCCGMYK	128.	ENWRYDDSYDBU
85.	CHWGPLMYIBYM	129.	OWHHIVJPDCQA
86.	COBMFEVDJJTT	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.	OZMZSXYYLUGG
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.	YBXERJHXSVJB	157.	UEQAXJWBQLAE
114.	PYTVRYILDTVE	158.	QGVMEXLMFMAB
115.	AGNENPNGUMTW	159.	MNUZIQPWWSLJ
116.	FXOFAGAMQVSZ	160.	FLPKPONSAYEY
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.	DCBMKLIFXUBT
1 <b>71.</b>	QEJNGPDYGDVN	215.	FFXVOCVJBYMI
172.	PGCCELPXHSRY	216.	LONJDBDAKWMR
173.	TELDYBWPVVIB	217.	HHFXGBVMZMPS
1 <b>74</b> .	EZGCCQYKBQSE	218.	EZPTDSVURPWY
175.	EZAPKNVFYZSP	219.	RTTJSOTNOCAD
176.	JVYMPCXGHQRI	220.	MRPWDJMNQMXI
177.	SROKMZBKSEOY	221.	CTMAYRLONPRQ
178.	ANVZVBOAXVYE	222.	TRFNXSADYFTG
179.	XZKHKNIJQEOU	223.	UIMUZLXANZLL
180.	ECQPMTBIEOQM	224.	KYBHFOZGKTYY
181.	TSRBEXFBCQBQ	225.	KGPKLPSDJEKZ
182.	YNRIZLTQEYXM	226.	OYYEPZYOLXNY
183.	ZYOPYRYULJQO	227.	NRURGSZOQEQU
184.	QLABBFZWRDUE	228.	RAJXNHUKDTXD
185.	WGXJGKJILRBP	229.	ERKBAZJNZKKT
186.	ARKXSCPLSLFL	230.	HMWWGYRCRCWN
187.	EDGVACXKWTTP	231.	AXGIIXRZIYSJ
188.	MBZMGDZYZMNC	232.	IZUMYWSNGOEB
189.	ADKWPWOMZHIE	233.	EKHXKOVTNBUK
190.	XBTYBYUZJUFC	234.	SHXXIYAVMSLH
191.	AIZAXEMYKBPZ	235.	PRTUVAKPCWHQ
192.	VRFMIHTDIIMM	236.	QLBALILBCLHX
193.	SGVBGPOWJRDX	237.	PSOCRJDYCWTY
194.	RKDCQVNWLSOP	238.	WVFMFMIWNHUX
195.	UNCMMSRSWHRR	239.	BSFBTOEGSBBC
196.	SLJFMMZSGOWS	240.	ZMZJVYVUAOUT
197.	QNHMHUCPCYEN	241.	WQYCAGPQRKCQ
198.	RZBOJHCVHJEB	242.	GWSIIJRVRSRH
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.	KIMOBYVFEXKH
206.	YIHEWZBXRAXL	250.	ZWIVHMXXDWSI
207.	YFGLDFKPNJSL	251.	VVCKHCOMCROG
208.	NATEQLYEXIWH	252.	BOWGKCOIVIEC
209.	HTOPTPJHNHCP	253.	HEVXPJAEPUQM
210.	OBQKJUNKRYJI	254.	PMVETBAWHNBW
211.	XXXBTXCAXQUO	255.	WTNAOBWDLGPU
212.	QFKMHJKXDJLK	256.	HKEXWUGBVSYO
	X	250.	111111111111111111111111111111111111111

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257.	DXYXIURKMVBP	301.	STVRFWCTIVQW
258.	QYPSNLQIENGL	302.	YWRHMOILWGJA
259.	TWNPUOSMBCLZ	303.	ETPFSFLNGYIT
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.	VZYGSHYXYYCP	314.	REUWLUKQKQLM
271.	NBDIEWXBXTSF	315.	VHTGIRPMUFOO
272.	XAVXXYCAWJLZ	316.	VQRCCPEMAHDN
273.	BDEYRJEGBEKK	317.	ETGHUPGAZYQG
274.	QPFAOXZCVTJE	318.	AGBRZDJOXCKT
275.	CRFZLKOHQLIL	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.	EVQGFPWYVYLW
288.	ZSFRCUGNOCZU	332.	TLDBHAZBQFLG
289.	JHAKPZDCQINB	333.	YTJJYHLGFSAU
290.	DNNKULTABOFV	334.	RQHXFCZOMRQZ
291.	PPWNNWXBFQQS	335.	EAWHWQIRWHWL
292.	HIYUBCODOLYQ	336.	YJXUBXMEAKPO
293.	BVIMJDUHTJYU	337.	WFTZOWDDPIRB
294.	EQTMQEHXUHIW	338.	BETJWROUZWHI
295.	NPVAKUCZFUTA	339.	UGHNTWWJTFJZ
296.	NCGUNQRWBDNZ	340.	SXOYXEYKGDIG
297.	RJQNXBRHNNOU	341.	RHGOGLBZHMMX
298.	EPNUOFSHPJWT	342.	GLMYIRVTUECC
299.	KQDDYLBBFTYD	343.	NVXNTWBTNAZD
300.	EOMCEIMJHKBI	344.	WJBQTNWWKLNN
	many trans and the should do to the should discharge the	5111	

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345.	EFIGEQLNQEYT	389.	SDNKBGGKIDFB
346.	IVZKLYABLGBT	390.	LECVCZRDFXYA
347.	EGLVXQDHSTSB	391.	IQLCDFWMOHHG
348.	UVHULPNVKQIQ	392.	SFYUYAIKWSBI
349.	SZJATNCTTTDH	393.	PPRNDJMIJUTD
350.	QIVHFKUXWBKA	394.	XCPKRWTZUVMG
350. 351.	QYTKJMWIRLTK	39 <del>4</del> . 395.	
351. 352.	VDENNLOZNAQW	395. 396.	FEFQKVGBXTCB SGPVZHNJFUIL
352. 353.	GJOJYRKITPCQ		
355. 354.	-	397.	LIMEUWYJSFFO MIEHEWTGXPAZ
35 <del>4</del> .	GASCXSNCQCGA	398. 300	
	QAYMKVCKEWUW	399.	FCIJKBFNSFUN
356.	CQZEIJGKYEQT	400.	CHFWPBDVOMWN
357.	LKLVGADBTVWB	401.	HWNSUJJKELUL
358.	CYZYSAYMVSIE	402.	SDXLGIMDOSNW
359.	ILHAYWSIBHQV	403.	BALDHOMYZJDB
360.	SHODKZVZENOJ	404.	MXARXAOSIZNY
361.	TPOTPGBIJZWA	405.	SAPCWVBDQTYJ
362.	SZFIYMDVJGZP	406.	RPEDCPORXRHB
363.	CICWSINDQUMO	407.	YIZZEPONQIXY
364.	IWWFEPLGVLFW	408.	PVLLIDPOWCAO
365.	QNTBVLRBHZCJ	409.	YTPAWHIXWFSV
366.	KYBHAGNOKAJY	410.	MXAPOPCKQDLW
367.	EDPPPWVXRUTE	411.	PHZXKDAXHDKO
368.	KEXQHSXZHSLV	412.	CVZYEKPFQJOO
369.	NNCNKKMRICNH	413.	QARRNDPHEEQK
370.	ZOHWKOFLUTCL	<b>414.</b>	AAEVCNPRMVUH
371.	TNQXWCKZRDFC	415.	AZVQAXRCNALG
372.	CSWKLZXZZSTZ	416.	RJDBMOYLZFQN
373.	SQGQYIXDGOJH	417.	YTUTVUCVZUIQ
374.	DFNGBQNIVFLM	418.	SWBREMZWOQYB
375.	DDDUVWXCFVYA	419.	OHNCQDDDWFPL
376.	FJFFVJDEFJKZ	420.	HITJXIENTWLK
377.	BAGYIRCOMDTU	<b>42</b> 1.	LQIOEXZJGLST
378.	MMPIVIICADMQ	422.	XAOXPZETELCT
379.	FZJGVTFLEGXQ	423.	URXRYPRYXRKF
380.	QELFVWVVQZGV	424.	PXYYYAUDYYIR
381.	NGHMXYGZFYVC	425.	AAWXCJTRNIQM
382.	PAYZDDXPPMVV	426.	HFTSEWJSEFKI
383.	SDXJAACLZBYY	427.	YRZJFDARRAYY
384.	RXVMPFTXPBVW	428.	<b>JMUIJSCMYWIB</b>
385.	ROZFNGWSMPAF	429.	HIXCWVYLVLAG
386.	DAKOPFVUFEJO	430.	ZSGMWUXIMFVA
387.	GVFYTEOHBWXN	<b>43</b> 1.	UOKCSDVRKEHI
388.	LTFOHGKRGQES	432.	OZRGZAOSKNSR
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433.	RUJUGGGJVCSL	477.	DPYXIVGYOGRO
434.	JTMELQRRHAPF	478.	YSSBGQKOSWMC
435.	FOZBLWUDPDFI	479.	GTHALHNCBHYG
436.	PFGWMFBIPBTR	480.	QINDEDAXFCFD
437.	VSIMKENXZMXH	481.	YIHTMBZOBSSB
438.	JVZHPPFIKAOP	482.	EFERSRBPKIRU
439.	FRFSGZAOXYAQ	483.	LWPAJGSZRXUT
440.	MRRCCELTOUBF	484.	MDYIANYGHBJU
441.	GIQNHWTVVVGW	485.	AWOEFNDNTHRB
442.	YRVHKAGTLWDR	486.	MYPQMMUCZWMR
443.	CJLFRBZUMJBU	487.	VZMBHHZTHPBE
444.	LZBPPIQWPGSH	488.	QFKMYAPBYYOT
445.	ZDYNQWISFJYP	489.	YDUDLTGWTRIW
446.	ATXWBOALYLLC	490.	NWQAXVUKIIPF
447.	ZTZELJLIKUPZ	491.	MXJQVRFJIXLQ
448.	QINIXKGTMRBB	492.	ATHBAXRSCSGN
449.	BCIGBZJOTNLF	493.	GNULUBLHZGSJ
450.	YUSBMPXVNUVS	494.	HKSYIPFSQVEG
451.	SHMLEREXBIXF	495.	LVDOJDJKUBHU
452.	FRDFOLJGOAIO	496.	PYCYGANGEQKX
453.	FICEZNTMWFMK	497.	POACKCPRZATH
454.	NNDRXZBJVZLV	498.	MUCCQMMCHMRK
455.	WPFSIQERBQIC	499.	ISVVHNDGAXGO
456.	YXONOBUAUDOX	500.	LCEZHLYLSFAJ
457.	IJAGRDARLNMT	501.	WLKHRLCTPEJI
458.	XTBHXIXUUREZ	502.	PRUGDSBZUAIP
459.	GUYSSEBLCLTM	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.	FWRFUYTXCILZ
470.	ZIKQQDWFVRGX	514.	VENVNTEZGCKJ
471.	PVWCTRXGCLKO	515.	HTSOFNJFLCBU
472.	SSAZHJVFNEXA	516.	NYVVTFTFJPIL
473.	UAJUNUMOGQDU	517.	QTHRZEBUBITG
474.	GVMADBCVRGZH	518.	UCWWGUVQPXBP
475.	EFJTURLFKYTL	519.	DXLTDQYTZKXE
476.	SKWYITQPDOJL	520.	USDCJHMPXPQF
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521.	KCNXKITANFAM	565.	MEVEYEBJFSFA
522.	WVRUGEGMAAJZ	566.	RPFVZSFBJYJO
523.	SDLWVHUHCNKT	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.	JNMICFSTIIDV
533.	QGPNUSLIUVNV	577.	HIXUBHMPQPCK
534.	UYXQPQYKBMII	578.	YOJKUAEEQNJD
535.	MOAJYEOQXIES	579.	MNJXDVSSZHMX
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.	
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.	SZEJJQMAKMLF
557.	BANCEEFTMGNY	601.	HHZTUVHTOMHL
558.	DZYJYVOZPXUF	602.	WHLFQCUUFOWN
559.	GOMPDJMKYFYY	603.	BLLQNAZSRDAQ
560.	PETEYJHVCWVJ	604.	RXWBPMZSWWDG
561.	ENRVSTTAVNDO	605.	ZSYZCDYLFUBD
562.	KYOCJZLTZJTX	606.	FQLNAKYFLDGA
563.	PELGJWQHSYZP	607.	XDOIQDEGNIIW
564.	IXMSPCYMPYMC	608.	MVTXPREHZMGN
501.	HILLST OTHER THIO	000.	141 7 1711 ((())112.141()14

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609.	SCOJGKMLCXRJ	653.	VHUNINCXQGAB
610.	CASSSMASQQEE	654.	LIZXOMPIRDFR
611.	XGQDJFRZHZST	655.	<b>VFXXURTIOYZS</b>
612.	ESTEZYASHRVN	656.	SIVVGGZXABXM
613.	NAQSSUKYMEIL	657.	APJMMXBCKQFS
614.	HBEHQOZZRKSU	658.	CFZCNWTJWLUE
615.	NHQLUOSQOAQH	659.	ELBNMIZKXZGD
616.	YOSMCNTJVKIA	660.	<b>IFCIXLVDSTKS</b>
617.	DXHRKCNFIAQJ	661.	LCNKTBNKLCEW
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.	QMERYDGQOZQF
629.	YGSLNZACQNNR	673.	SHXVGTRUNSIH
630.	LHXVOETWCDBU	674.	<b>BGBESVFBBKVC</b>
631.	TTLMBLBYXCAX	675.	IISOFYJANVWB
632.	IYFLSUSKKQGX	676.	OWSWZTDXHQVH
633.	KGOHYFITCCMS	677.	KMBQJJQDZWDT
634.	UPZWIWPQHBCY	678.	HNIGXDLHCBBK
635.	FENHNLPXQQUE	679.	LHJBJEGAXUDY
636.	OFKSIHUOYKJR	680.	BYZPQIKHUORN
637.	KLLSWMBHAMQI	681.	OJAGELNHIOYA
638.	JTYVCNTEZXCJ	682.	<b>IHYWTCMZLFX</b> U
639.	DLTGSRSGRALY	683.	SUESEDYLHYDV
640.	CTHIYSLDQLXA	684.	<b>QZYZUVDTLDAF</b>
641.	YMQOCLHFHADT	685.	WJIYBUWAQSAG
642.	FOHYPOMDTKER	686.	IWXCQSNQYQJD
643.	FICCSESQYTPU	687.	TCBMFZZPKILB
644.	OAUFIUOLSKXH	688.	REAUCICNITUX
645.	DFUKGRQQFMBM	689.	UTNAFVZXQAXP
646.	IRGCIFUJKTFB	690.	MSNVVNADIFMO
647.	ETJHMPRDIFAO	691.	WKAROTBBCTZH
648.	DARQQJZYORWP	692.	AOZBLQFXNHCJ
649.	CHVVGCIDOARW	693.	RHVLGUDTBLSM
650.	RCNPNWDOMAZJ	694.	CFXCKTURYAJL
651.	ETOTAOSQHQMZ	695.	ZIQAFYTCBHRT
652.	RRIMGCVCXNAS	696.	YVHKJMDMXUMS

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697.	NGHQXNYYMZES	741.	RCBCQWMXWKBO
698.	SDEHZJSWMEJP	742.	TZLRCAAUEYAK
699.	AJBDCYKYEBDL	743.	RRVMNROAYFJX
700.	UHVGUCISXIHC	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.	EBOMQBPFGQFP	752.	OGZSBDTYJLWP
709.	QTMROLMTXQDS	753.	MCXHWLWDFSJI
710.	SFJZWNCHATGJ	754.	RKHUFOABWNEH
711.	ZHWSMWUHLLJI	755.	HAWHLSCHSGRV
712.	GMCTSGPLNLFY	756.	DTVISOJNBNLY
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.	JILTZTZLHXLI
725.	CQITCIBLTWAS	769.	COVSLZYQMULP
726.	ISVMRQSLEMCQ	770.	KJRWWJMHCTTL
727.	LUIWERBLUOSN	771.	ZVJHGDLDSTRK
728.	HZJHOWMZUTJU	772.	KDFLSNUZUIRP
729.	ADSWGADJFTHQ	773.	JJRNXNLVTSCP
730.	ICDOTTUFALBT	774.	ZQILSWGYAQPP
731.	BTTOANGZKEYB	775.	VCFOHVCVWBWQ
732.	XMSUKLRGFUYP	776.	CREORXOXCMNY
733.	SNKRDOPQGAEV	777.	NDBYJSIPUMYP
734.	IBYLCNKNQHSF	778.	CHSGCGMDGHGP
735.	ZLKUNQLUJQOG	779.	IUJXKQTODQON
736.	QXWFQEMVQKSX	780.	JVACHJYYELUM
737.	RJICZFFJZWHO	781.	<b>FPMXTONINQMU</b>
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.	<b>EGNOTAXNWWWE</b>
792.	JVRWWVSMKCKX	836.	TTKOIZSPTBPT
793.	JTAPJCYYEAHZ	837.	YTBFEUEIRVXP
794.	FCAJWSCRDITD	838.	SDIKWQOUVZHL
795.	GABEOKQULPLM	839.	RUCMXDSEYGQM
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.	QSKCCEKMDZZU	850.	ABZLKDLBHWPM
807.	BVRMLFXEHSTA	851.	CJIHQPCLZIVH
808.	FHTVBANLGELF	852.	LFYEMKFNKVSW
809.	IESZOMBIYZIR	853.	XQVOEFZFBVDN
810.	DQTRFTCTJOGL	854.	KHWSRXOHXMQD
811.	DDXPWMKQLAXT	855.	UQBTTPGWYEHD
812.	AZNDTMZAUVKV	856.	CEWUNVYGLAAC
813.	STIADUHYKHRR	857.	SYRUFXQYFDHT
814.	XTNPJUYCJQWF	858.	YEFZKYJQEUHH
815.	KHHBVCYBPOCZ	859.	JHCSVZLLDNXH
816.	NPLGECANMGXL	860.	BIZHQWSXKNAH
<b>8</b> 17.	MYUTEABFBHFR	861.	VOTNGAVGANCJ
818.	AKWKTEEGPHNF	862.	IGCTCZLEHLLJ
819.	GFFTKAHREBIT	863.	KFNAXQTLKDTS
820.	PRCLZDOUWTEF	864.	OIURFFMTAKHC
821.	YNRIVZRXHFAU	865.	PSUNTJSLMXOO
822.	FOZJOVTZWCSL	866.	ZDZIQJRVITVV
823.	DHFTVVDRAMMB	867.	YSKQNBKACDGZ
824.	NHSKURGLUZLH	868.	MPAQKLPCAUXW
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.	ZMVUTRLMWXYT
878.	WCBUSCBKFTEV	922.	HVCPMRGEXJYB
879.	BKLHBFEIWNZU	923.	DMMTBWZQXOVT
880.	MYDAKDOSGBCZ	924.	WUZEPIHNDHMP
881.	NTZVOEOTCNGL	925.	DDUMNMMLIXRB
882.	WCKLZWUQGMVR	926.	SIZVTAPNUKBM
883.	EKRQXSQQWZBY	927.	<b>AEMTBOZCAIIP</b>
884.	OJWALVFXLSPU	928.	WDYCPLCGUJTE
885.	IEXOVQMUDQXV	929.	TUNHWAAVFLKL
886.	HGVWQYPSABFQ	930.	XUJQPICNZBER
887.	OFHANDIXGPUB	931.	OIRAPNNKWARA
888.	SAJWAGFSDJYR	932.	ACMZTCPFDWBE
889.	AWHFGMQFXYGD	933.	OGAEHDVOWMRD
890.	CVJIJVXVKICY	934.	ETONVWYBGVVB
891.	HALLQFXCRBON	935.	PNKMZLBWMQGF
892.	QJIZJBGIWOBL	936.	LNDBZBRLLLCD
893.	KLXJAOLQGOUX	937.	VBJFSXEGPGIA
894.	MVOJYKIQUYKN	938.	UWNWPCKBJOEE
895.	YCNHCNCRABAR	939.	VYANFWBDICNX
896.	CNJXPBHVFOBW	940.	CHSPCGACIPXU
897.	UUFDHULIKMMT	941.	JAHTHUKZFMAH
898.	BIFMCQGHEJMA	942.	RYGDOCVOACJT
899.	UKMJKGCHTGCL	943.	XFWGFSAGKLUC
900.	KZMGCZOLBDUF	944.	FIRBFRRDMJFC
901.	EPYTEULXKSYK		VYGOLUTKICSP
902.	UMQECVYMUIZZ	946.	PXIOUTRJRZZJ
903.	PYLFPTTIOREZ	947.	RQQBZQVISBTX
904.	WPGYRFDNRBOC	948.	ZCUQBHVZRMGZ
905.	LNOSJYKKLRFS	949.	IIOGPMSAQGVD
906.	SVNEPTREOSRL	950.	WOHAZGTDECXA
907.	LCXJGAUPFPSZ	951.	PKFNEZGKLAME
908.	SEBUMTPGLKTS	952.	OGAUVTFZUXTJ
909.	RFXQGYJNHZLA	953.	RKGICVMVSVLN
910.	TEWJVPLBKYZI	954.	IQQVFQSFRDSN
911.	CZYHIHJUTUXE	955.	GWTWMAQRZQRQ
912.	YFVHHCLLNDPJ	956.	MKQGVRIEPXPP
913.	WINRAECFKZFE	957.	YTGEDSYKSWCT
914.	VDOMUHLKJIML	958.	SZNJNUTYEQLX
915.	SEMIQINIDABE	959.	GMLEDMDBLMCR
916.	OGAHGSKCPFFD	960.	CUXQQKLUDHMS
		, 50,	

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961.	BFVKIAUGXAHX	1005.	KOTGJWJCBYUA
962.	LKWJHCJOHSOA	1006.	KVHIPXBZBJGB
963.	XNOVVTQMHHJG	1007.	
964.	BGYPZDXXJAME		AJVJJPZRPTGN
965.	MVLZESXESPEK		LCQHMDBLVOPQ
966.	HIZCZIIIGYKB	1010.	-
967.	IKNKXPTTZPAF		EHQUSQKLKABM
968.	JWHLXBSYDYZS		KUHKAARWHIKJ
969.	CRDNBQXQJBXI		IQJENENVEXBO
970.	KHDPNUJSRNPR		KCDWZMRMIIIH
971.	PSUNEXZZAGGN		
			DCQCCYHRRKDY
972.	JVCLNOWAPDWY		ZSWHCCCPSZAV
973.	NQYHRDXAXTUQ		NQNIANIRRRSS
974.	YUSSQZGIAWQD		ZRMFWZVVLJQY
975.	POBJKEIRBPSW		VKVLZTSXCYXS
976.	ALAJRINRYKMW	1020.	
977.	AJGAVHNTKYHP		THYPMNWJJHSL
978.	CPILVUUUKMTO		FKQBAEDGJWOR
979.	QPHWZEKFCCFI	1023.	VCYECJYKMGZD
980.	CHLUYURULASK		YRFZKYLJDRTA
981.	RFVOLMILFYYZ	1025.	CAUESOGGQHAJ
982.	RINVZPMOTENN	1026.	ZQHDUZLFLUOH
983.	KIYOTQLMLPXP	1027.	AEETSXBWZXGV
984.	BVKAXELNSJBF	1028.	VIRRIVNEUTPO
985.	IUURKWCJNBVI	1029.	WDCSADIGJNAG
986.	LZNFTBZSQNPM	1030.	RIQYGXURPJXW
987.	YJZIFKPDHLPM	1031.	
988.	GYACXCYMQDVV	1032.	MVURRUVKOLZR
989.	KDYNCWNSWJIO	1033.	KITNWFAWITDJ
990.	KHEWIVNMJAZI	1034.	MUIMCPNUBUZR
991.	OMZRZQBEKFYP	1035.	LBQUFYJBULIT
992.	YSAFXCIAKZXA		ROQDZUDZOHHZ
993.	MONUEBNYDEIW	1037.	DQQOGSUOUVCO
994.	TQEESDSWPPIV	1038.	UXPSCPLGCRCS
995.	QOWCINUAZJAV	1039.	ICKTRXPOUZWY
996.	OUOPREQLORAS	1040.	LPLRPZHRDEOA
997.	TRNDEFLUSIGW	1041.	TVGAOKSDSCNF
998.	JQQXJTERCCSC	1042.	
999.	UUQZGBEYCBBA	1043.	GMOQIZQNHTZT
1000.	IRGZDLIAASSW	1044.	LQDIOWWQJNNW
1001.	NOFOROFKEMZB	1045.	PSSKDWKRHESJ
1001.	MWTRXPXHEXLD	1045.	YEHDQKLGLITY
1002.	RHEHZCBZIDOR	1046.	TTZXNDQAIHJB
1003.	KHPATDAXAPZU	1047.	NPQNZQSOMTIE
1004.	KIII ATDAAAI LU	1040.	TAT GLAS GROWITTE

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1049.	VCCXACEQZANO	1093.	SCEGHTUSWIRR
	RWCRXKTKEDEH		NLXJOQRTVBLX
	YOVJKQYEVBEO		CROGZECNGEJG
	QIWSNLTWVHVM		UWEJPMZWWRSR
	LIYQJSYVEMPS		GZGYKFLNEZBW
	OXLQFCPJXNDZ		NSCTBNDXCGHF
	SLXNGSLBMBUT		BEGGGKKZDDQG
	MXDQYBKCAWIJ		TLPHIQZJMGMN
	HORLJSSLVUQK		LTVMQYHAEHSD
	AGYUNMTOVPVK		NFUXDNVRBPOW
	ZPVVMJMSLRLP		GITLQZRXRVQV
1060.	ZLMMUEJMULTM		NGJNRXMTPKIO
	VBGSOZUCPKQD	1105.	YOBAEDXEELXV
	XMTWCYOWGHKU	1106.	LGXMSAPUVBJL
	DUDHVTVCKQUD	1107.	LDHMKXYLTLYW
	IAODLLEFMTPA	1108.	AHBIKIDSFJFE
1065.	XHVZBWJDUXPL	1109.	JYCEMYYLKTVD
1066.	QOFSMVMWFEJW	1110.	EEMMMNXRNRCN
	ZRBYGJVZSISM	1111.	PKGKAHBCTWDN
1068.	FIBESISEEATL	1112.	ZILMYOQHVPCM
1069.	YULYLPFUVSSD		SCXXCSXLIUIX
1070.	QQMBNCEYBJEG	1114.	MQGKJLGBSDAF
	VPFSDXBLZMAA		NYXJLOWVHPNB
1072.	PSDNRJPPIWWR		TYWKLALFROIJ
1073.	QGOYYKEPOHNR	1117.	PRAKYZBRCDWL
1074.	SURUDXFADYDK	1118.	QLLEHEPWZPRQ
1075.	KFNEPLVWJFKX		VWZFQAEUKEEL
1076.	LGKAHFEPSXOF		MFMYVSYHPTXE
1077.	WQYKVQYOFDHW	1121.	UMGPMTRLIMLV
	RPWRQWJXFTQP	1122.	GWUHTNKEPWSD
	NREESKKDVEHN	1123.	CMGQWIRRPFKE
1080.	LHJVIZLCECLU		SKRKKBKJKESU
1081.	XIZDZAMOGGIV	1125.	SZPXTAMASOGC
	XNEASSVIQYWJ	1126.	LULQFBKATSLE
1083.	LTMEMRDLBOOE		PECGCVALHHMI
1084.	YSPFGZWKXFOH	1128.	
1085.	UPVQBQXHSAMU	1129.	RUNFBGIFYXGO
1086.	SKNENPVRZJFV		FKKKYBEPAZVV
1087.	CMAXBZCBJHNC		NZAUVIUQCVLH
1088.	ERYXFCYSKJHI		CJZLRTHXWOUP
1089.		1133.	
1090.	UCCJEYOCCRRC	1134.	MOUXXSSADNBB
1091.	UQAYZDYFXVFZ	1135.	
1092.	UYDJYSSVYLMT	1136.	

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1137.	IGZZQIFUJMJL	1181.	HCDXDBFDIWKM
	NXSEQWKAKZEX		EJAYCXIUCEDR
	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.	PAUYJGGQKVSV
1147.	SVGLOKMGJRXE	1191.	JMUSFFUWSSVJ
1148.	NDDEHTAHBORW	1192.	DRGCJGRFNVUU
1149.	QLHHQSASXFLG	1193.	JXEHBYEVGSHK
1150.	RVIEEWGKJSTS	1 <b>194</b> .	NUJCYIFCEYJG
1151.	HCEUWRRLNLSC	1195.	XVPUFXYESMJC
1152.	OVTYBFBJJHWO	1196.	NAGKGVPNAQKC
1153.	BKCBGEBCLXIN	1197.	MULVOVZFEAEU
1154.	YJCHOZLZXFLJ	1198.	YHXFQVZIYQOE
	HVQZBFSZRDJL	1199.	JPLCXVNOZOAH
1156.	JEHYYCPAENZB	1200.	VSIGILXUJEZA
1157.	NNWEFRJWRCGK	1201.	IZLLIXZELFKA
	ENHGJQZRDAPO	1202.	RCCBPBWHLWRO
1159.	DVVJPRSODLBP	1203.	ZDVFNNSPWPJE
1160.	KGVTMURAIQVP	1204.	MXURTTPMURHC
1161.	ROJPSGFIWLNL	1205.	GEFRGBPSAPHL
1162.	PBIFMQEVBXGW	1206.	KQEZZVIPTJFP
1163.	ULMBLXXLLETJ		JNEUCUBDNJWM
1164.	BKXSYPNHHWNM	1208.	QWPTJTVMUAXP
1165.	WEOCTUQATJDC	1209.	ZPENOGYVSCMP
1166.	JHOBQHFFOCCJ		HYCMIEPRWKOA
1167.	EUUVSDXDPCLG	1211.	QOTWGMHTAHGN
1168.	EUCDKNEVPPWB	1212.	WTJFJKQTGLVU
1169.	XNGLRZMPFVWL		VAVHOKHOEVGU
1170.	FDZTAVOQTIYT	1214.	FBTGDZMNGZNE
1171.	GUNUEVWOCAGY	1215.	BBBKDNUOGVSB
1172.	FNGXOFLIAYZN	1216.	GPRQUPQLAVPV
	CQOLOYRLVKRX		XNMZNOKUCOHD
1174.	DSCTMEBXPAHB	1218.	IDDIGEJQKSYE
1175.	XBIXDZKHSEQX	1219.	
1176.	CXQUZERMPXKI	1220.	RPXWZGRJSGET
1177.	WICXCBWKNGVT	1221.	•
1178.		1222.	-
1179.	CUATTVJSFDZI	1223.	LMFWJGHHDVYM
1180.	INOWXISOAYBU	1224.	FXGQGGWNLSBB

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1225.	LTDYLLGAFGIL	1269.	KQDOJQUFEPPO
1226.	WZEYSJGSLPZD		QFIXMNYNYJEP
	NHPQWAZFPDRU		DUOPYPKNHQVO
	SZLPGJUGBTZQ	1272.	-
	CHFYDAACSLXI		PEUKTOGUCGJS
1230.	RMHMVIQQIQRN	1274.	BDGEIWYPLCYC
	CBUDFWVCDGLB		OCHZIHGJDZTK
1232.	MRPKCGVPCLGJ		GENWQXCJRVJT
	BYYCLXBHEPHB		FWBGRFWSBEDU
1234.	VZKOAQPMCVBG	1278.	EHIZQNUXNABS
1235.	ZPASHYEAYXFF	1279.	HLIKNLAUZQFW
1236.	DILGEAZRFKRG	1280.	HDJTARSQHRAF
1237.	ZNGMBKHRCYOC	1281.	<b>IQJMCDHMQAMW</b>
1238.	FBXASYFZXOUG	1282.	KYFXTBSSAGMT
1239.	SOPWLQWSHZQG	1283.	TSVTBKSGUJAJ
1240.	PQAEDVVZFQKH	1284.	TPUYHPAXPRUH
1241.	HPVHUCIIYXIU	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		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.		1311.	ZOFKHJQEIBNQ
1268.	JPQJBEQYHYAT	1312.	FXPIOJJNOROS

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1010	magric and the tart	1055	DELID I DOGLOHI
	TFSYQGPMVMCV		ETUEAPCSYOWL
	AEDPDZGIQFWY		SZFSTUTJLJIX
1315.	JMXHOTGRHWMK		WDFDRSYGXYMA
	UNWFKGUWCOLR		XFBMTIKJZCWP
	SZOBBIHGMBNA		YPCIHMRBMOEA
1318.	DDVKKKWASUJH	1362.	CKOENLZRDGPV
1319.	HGUUHGZVBILI	1363.	YCYYYCNXXNYI
1320.	JZYMDXGNHSZS	1364.	YKMBEDFUWYLK
1321.	EWHJOQZAAWST	1365.	JOUBVPMVVTMB
1322.	IJCGWPHZDEHX	1366.	ZVTGSMCNEPME
1323.	CCIYWRKZDNZW	1367.	PEHQHMKNYFKV
1324.	UGNOYLWGERIG	1368.	JVVLTCTWTDSW
1325.	TPTUQTFPUYLI	1369.	MWDKLLTAWXQG
1326.	EVBJXVKHJYSS	1370.	HPGEAIUPSRHW
1327.	KBVUNNQKLIBN	1371.	SMFPGCGBAJJP
1328.	BMRTBYKITONH	1372.	EUXNEEUWJUDC
1329.	BQNWCAGYVBBH	1373.	NIHJXFQREMYY
1330.	TVGARDIGKACI	1374.	ZAAUSXQPOSSB
1331.	TBDDQMMVRLPU	1375.	OKGNVPDQTRVR
1332.	RTZTHTOWQPEO	1376.	DRFIITXAQFLT
1333.	RGDRXNWTTBVW	1377.	OFPMPCSVJYOS
1334.	MEOYYJLVNFHR	1378.	<b>JNMFJMFWBWIK</b>
1335.	YNUHJLQELFRR	1379.	TTNAPHZMWXZT
1336.	VSVPHJUGXOII	1380.	BKMXFVIIENLR
1337.	NLWWVPLHHJQG	1381.	ZDIYIKYGJNXV
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.	ZTFKRUFAWLWV	1388.	DZIJFOGMFVBV
1345.	MSLMHPIWJNZW	1389.	DDBTZRYHDTTR
1346.	WZOXQRQFPRGB	1390.	UKARLZWOJMQL
1347.	AQWZLOCFVHBO	1391.	TJMPRIFUOAPP
1348.	CRBORCSMIONX	1392.	GAMTEZTWJRCF
1349.	PBNQELIXAMNX	1393.	BUIGIEGABQIO
1350.	ONKUTXFSIAOE	1394.	QFHYDPTGVJRU
1351.	CTTRDPCYASSE	1395.	NLKYKARSDWQY
1352.	NSBDUNLKMOKR	1396.	WWTUKIGGJMPN
1353.	AWOUDGVMWYLE	1397.	FIXHBRYLWCBA
1354.	KETVFYMBXPCE	1398.	MELHUMQMOUIR
1355.	UNEKQPTYCPSK	1399.	ZWVBYWXRMICG
1356.	DJTHMLVAMBOZ	1400.	CRNVHFVJIFDJ

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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.	IKVHQUFXZUFT	1453.	LOXUGBQZNMXN
1410.	SLAZWJYZMIGP	1454.	LEUXKDRJHVFX
1411.	AKLQJBOVIAZS	1455.	LIFYNOIBQHIC
1412.	OWNUIRKSDPZN	1456.	YADDLYEPHHFF
1413.	FCEKJPBBMTAN	1457.	NJLBJFUYKCQF
1414.	GPHUIUCUUUJD	1458.	LPDPEWCKYHOV
1415.	LRFEDCFMPKEJ	1459.	ZEXARNAKIEGF
1416.	PDTERZTFXAYS	1460.	CAFOCQNFPREA
1417.	BXMSVYFZWOER	1461.	AEHVKPCDYTZR
1418.	PSZMVDFPEKGH	1462.	AEPDCZJVZHKM
1419.	VXIFFVZZWVXU	1463.	KVHOCIBYDFCA
1420.	ZIUTSNFCDPBP	1464.	SEDRPHKYURJA
1421.	VHOJSDWRCKXN	1465.	ZQVAZZHXKKTL
1422.	OZLXXITJYRHX		KGLCNACOPCTD
1423.	HFTPFLAXMYBU	1467.	VBGBQPFJVYEH
1424.	DIGODRHZSUPH		CDXKESJHHJEG
1425.	JVJETVJFIOKJ	1469.	MMIAOJPEMIUM
1426.	HEIVFRCWQMIT	1470.	VMRKPODBAQIE
1427.	LWRPJBJHRFKR	1471.	IOCMXGZQIHJO
1428.	YRWVZJAOEWIF	1472.	QYPZSEJZOSVZ
1429.	MYUWKMIWMTON		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.	LVMAWMRGBDOJ	1482.	LKRVDNIQNTHT
1439.	IMWBZKCGOMLM		VNGBVNJFMKUM
1440.	VZHLCLCKICVW	1484.	OBOGYLJSMFSW
1441.	AJIKQCKAHSWO	1485.	IQZRZEFETUVA
1442.	-	1486.	•
	YXWCKFCBJLAU		HGENIBCVTKTD
1444.	KWHWYMVWSIPE	1488.	AMOMUHBBYFRJ

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1/100	HZCCMOHCMCI	1522	EKITCDVCVDKV
	IJZCSMOHCMCL		EKJTCPYCXBKY
	WWREFEXFZDEA WDOWISNLSULK		DYMRBDQITEJV
			KTEHIXKYSYFX
	DHPTGGBVPIYG		GISMHCNRYWXW
	XAXDKCDZQDEH		FHCAUUBRUHDM
	EDMOJXPJYYPT		ZVFGTYZNDBYP
	FDDIHHGGUWDR		UXPZOAOYSIHS
	KPRVDURSPGXX		AAEDFMOOEVAF
	TOAXYXZJQMIH		TJROUYWLKORB
	MKWJBQABRCSJ		WWBOBHQKEAFN
1499.	MACQXROERSDA		BLMAKDOZDIXC
	XQDCTCLBAUYO		KGXRJTMQYZDK
	CUOGXBCSWJWZ		DJDIKUSINCPR
	LXCWWLVBANAZ		CTTXTAUWOKTH
	GIEQLPBYNUUZ		HRUNIDRITFBN
	NLRRRDQCQKZM	1548.	PFTBECRHYIAB
	ZGNQURSXXGJQ	1549 <i>.</i>	OUTRVTYTHTSX
1506.	BNSSRYLWXNTN	1550.	JFNTUGXBTVJB
	XQOSRMFOMWNG		UKQTUJNKENRF
1508.	KNQQBWLCLVCT	1552.	YLFQFUIUDZIK
1509.	JUUWRQUHMDXA	1553.	HOUVXUKJCQVD
1510.	HSMUHZWKWXOA	1554.	ZLSEKHCYTYTO
1511.	TDSLLMFOSRLZ	1555.	WGVETFVSDYRV
1512.	QTTADRLDQZJQ	1556.	UKLGMSUNQGXW
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.	KLUDSFXDAHHH	1567.	PEWAEHGSFEJT
1524.	GTDCARQSGWFA	1568.	EUZZCJNEBEPC
	QKTZILAQQIOU	1569.	QNCPRFKWWRSF
1526.	SUUVWPGICVWG	1570.	•
	VANSYCCMYKFA		NMWCAOETIADN
	UUJFQVDMDRIX		VCJECMMMPXXD
	FDYDYXTUGRWC	1573.	
	BSMTDZXUBQVA	1574.	
	YYOSJIUFIBTC		HHNYDDGVDXBX
	PCHOJDVNZYMA		SNXUOJCEIMNR
		22,01	

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

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	<b>78</b> % 6 40 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
	ZJNMNSZQPPKD		GDVHHQYAHWDT
	PQRPOJSYOMNO	1710.	VJWNGOBHVAIY
1667.	OBYTBMVSQBZR	1711.	DQWUKGBZOUTI
1668.	PPCDZQUKXBGF	1712.	UDBURVRPBQMD
1669.	SNLRLUJGFPFB	1713.	JICZPSTWPURI
1670.	SCFXZLCORZXN	1714.	PJYUSLOIPXCU
1671.	CUOCVWROLUNG	1715.	TKAKJDMXKQSW
1672.	JCATJJDDPZEB	1716.	TEUPUOCTJQMM
1673.	EWLKOGIVGKBI	1717.	BLXOUESFJFBL
1674.	GWXLDQFIPVRS	1718.	HRLCSUFDPZSL
	UMWEHWSZHMQN	1719.	GKNBGMRPNDGE
	WRNXBHMIXBJE	1720.	WIXHTVRTTAVL
1677.	SPQCXKAGPCAK	1721.	OISWLFXBZVLL
1678.	KMFJZGJKLXMU	1722.	JKBNEGLLNBSM
1679.	FKOGUWNGASPK	1723.	RLWYGWYJOKON
1680.	ORRFUMDSZIEI	1724.	LJQJNWWFTQIB
1681.	USZFMIFUPFVX		DYQCJJAAKEPJ
1682.	HTKBJLJZTTUX	1726.	WADHGOIOENRA
1683.	OZDSFETHHEFA	1727.	VCBOCXLLBXZV
1684.	MXTMWFBXEGYR	1728.	KODSAMGJVNZQ
1685.	UDRIZUTZWETN		VQMVTXLKZOLN
1686.	TWTHNMFKUIGG		LGVWDBDGDKNE
1687.	RQEELDGTOMOM	1731.	BTTHSPFTKMPL
1688.	XBFDIRZTIUZU	1732.	RAWXNZXKDSLT
1689.	BMRSUJFWPODP	1733.	WZPODUUXBVIN
1690.	GCDDTQAAXDKC	1734.	ZWTKRMSVNOUZ
1691.	LGCYYZXSOGEK	1735.	FYDADIMSFBFX
1692.	QXFNPRPOOSFI	1736.	XPMTZKKAJZQV
	XCKEWASUWIDN		GFGCMBGGWRXV
1694.	PTIFMCFJQHVD	1738.	IDPRYGUBCEVP
	JBYEEEHIOHAU	1739.	FEJBTHWKEIPL
1696.	FIXRIYLSFNLC	1740.	OXUYXGFTUFMR
1697.	BZFQCUVWLWSB	1741.	ZCWYXIVDFXUV
	PWVPAEAYJOJY	1742.	GLSAPNWWYMYA
1699.	COVARWTFRFYW	1743.	KORKMKASJBBC
1700.	ENKAVOVVHKDR	1744.	VFHNAMWKOUCV
1701.	YBFEIHQFBRPG		SSWCXTQCOCRF
	DKKNZPCJQEEU		TIVLILHUHEES
	XMZWQCGRAFYG		RIHGEAIROVKD
	IMWRCAEKDDYM		UMGQAXMOYKNF
	NWLYSMKRLKPK		KZBNBVJZQKFA
	YVMKBVXHJCAZ		NHMKLBUMGZPL
	GDKTVJWOYHKB		XQOIJHOWOMOK
	JLJYAOVIEXBF		VVPRIFSYBWFB

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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.	
1767.	ULEUSWDRKOQT	1811.	TZOCQEVSBZNL
1768.	QWXSRTAXATVY	1812.	JFQZXORHJFYC
1769.	APSZNXVWORXP	1813.	KSKRJWVYNPFV
1770.	GJGNAIKDBTZD	1814.	POIYDPSNWFWI
1771.	BUUUNTDMTANR	1815.	YRDSDOIKYDII
1772.	IFSJIDNWOLIL	1816.	CJUXLXYZUGMI
1773.	XAQUOJZFHGEK		UOQVJFYRAKJG
1774.	AFRWTSYLNYOX	1818.	FZNEAYSIRJTV
1775.	MZVCJZOSZOKK	1819.	IUEYJHQANHVZ
1776.	SSPYLAPOSFAG		TDEFLTYOVBXZ
1 <b>777</b> .	RMLMDTQOXMDC	1821.	
1778.	XPAWBNDYEHOO	1822.	MEAQNQEITNZX
1779.	WMXCPOVZUGRB		IYMLAVTSCSQG
	UOVKLWXWQQZW		MWFBGJUISIQN
1781.	WGJLOWFUZIIB	1825.	HKEJCTQNKAII
	BLWCDHBWHUBV	1826.	•
1783.			YAGIWOEUVBDF
1784.		1828.	TCSGTTKVZWQS
1785.	YLEWMCLUUONS	1829.	KMAGVMNTSPPT
1786.	BHZWKMABHEIJ	1830.	
1787.		1831.	
1788.		1832.	WCTDMGVLGSWX
	YEAYSMKJQKZM	1833.	
	DWUCMBDJQCFU	1834.	
1791.	KDGSZMOWTHWO	1835.	JHQVNNEJEKWG
1792.	SHGEXYVSSAUY	1836.	OIBXKFMDUOPL
1793.	ZCLTOVSQRIMR	1837.	
1794.	OVQJNJSRCMKI	1838.	
1795.	_	1839.	CKDGAWIAORYK
1796.		1840.	
1150.		1040.	

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1841.	IJIHTEXPVDEJ	1885	GXGOZXLMVIYG
	AWOSGPONXADC		SUEEFYIXTIDT
	YKKTQITEGHVR		GRUECINZRZUQ
	EWPYCGHHVUNR	1888.	NRGNYOYEIVWF
	KTGIKERXJRKR		UKBJAOYABMLB
	DWRRSSBLVVJF		XISFYLAIOUXH
	JCCTCSGHOQVV		USFNLITOSDDZ
	QMKEEVAXVFZS		QLJNVFYXHKFH
	ETCCAQSCTEYP		GRIRRDNNPEEK
1850.			GAYNHRBVKUZY
	HVROMMGBHSGC		XNKXJEBVQNCO
	FLWAXEHUIGHL		YOWNYYRXOAKG
	RPNGLORFNGXU		DEWURWOVEQAH
	KHTIEELKXUMJ		EFIKFQEWCDIZ
	SMMJNMREXGJL		TZVIALHUKVQZ
	XCOTKXNGHBRN		WFXUZXOVLJCY
	LOKCGGYCISBH		HAVKMYLZNIUO
	RLKKAMGDBVIO		FKCREHVJEQYR
1859.	UZYREAEOKDMH		JOBBBEAGOEBT
1860.	KSJTVGWGMDYO	1904.	XKMJACOJQBGG
1861.	RVQEUFJPYIQU		BDBVCYLSOPVO
	GHSISVFNTYRP	1906.	FDYSPYNRCNHP
1863.	VQTGGSEXOPWE	1907.	<b>PVKHZBHSGUFW</b>
1864.	UIVNNFIAZHLT	1908.	GVLRPDBMNCME
1865.	UKODMCVAAXIF	1909.	RKYBUSBTWREJ
1866.	PWIQSSEOIICZ	1910.	XVABJKKKWIGC
1867.	WGSOZSXWOZDB	1911.	UMJVSAXQPOOP
1868.	FBILVNZZZLZQ	1912.	MKZYCRMDWULG
1869.	GUHUEZMFHGTL	1913.	NCBTQOONRUQJ
1870.	JIGLVCTNCTDN	1914.	QIDFPATORHBH
1871.	ZAICJLRELIAX	1915.	IUBHIGIQXRRS
1872.	UVJJVYDPWXIH		<b>JNESXODOHUOD</b>
1873.	OVMJTYQOGYTJ	1917.	XJPYLWNGSXHM
1874.	FVDEMOMZUBFI	1918.	OYZTTNZNRVHO
1875.	OZYZMNCWWZRI	1919.	BPVLHSNRCBYB
1876.	QXABPWJLJJMD	1920.	ZCIERHFGUUTO
1877.	VNMMOCEPQXSO	1921.	QOQJWQBWLTIX
1878.	LDVHWTRXRWSR	1922.	NQYPJICZPEJX
1879.	QTOMWHXDTIOE	1923.	FGVVGRZHEJSL
1880.	RNATPXNTCSFS	1924.	QPPXWJQKETLU
1881.	TPOBNDYEWIVW	1925.	TCOONMWSZGVW
1882.	OMXYZWRQPMPW	1926.	NRFMDXKUXPLP
1883.	EGTXQYJIJPWO	1927.	WTMPMPLMKZCY
1884.	ALJFRHUAGBBI	1928.	UDRBPFSVPKEO

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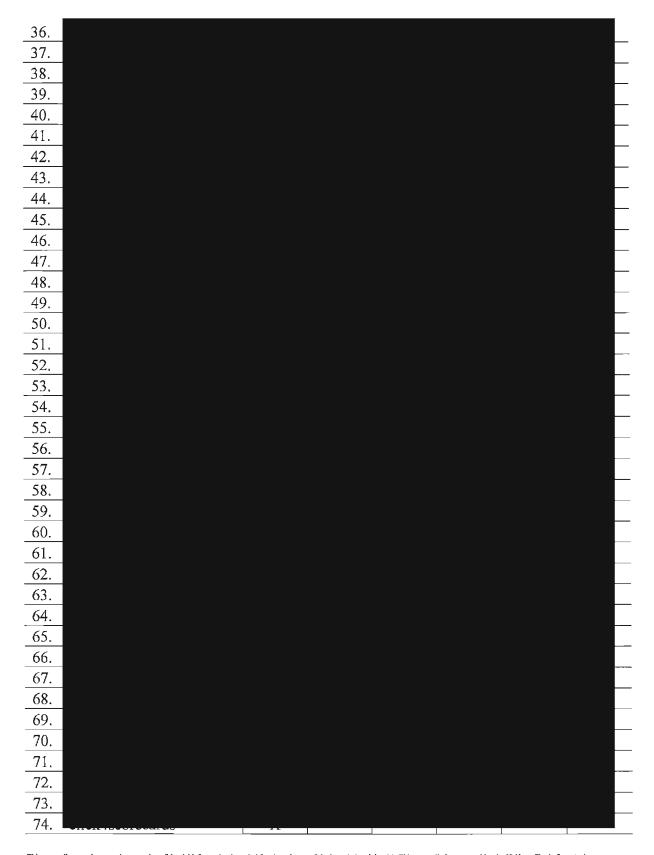
1929.	QLNJBDELDILL	1969.	IPJBPKGPAUUF
1930.	OCBJEPKLZXZK	1970.	CAJUKIUUHQWT
1931.	JKEOOQPCHPGR		FAHIYYGTVBHR
	QWCIOADRNCDS	1972.	AHUIDKWRGHYL
	AYEGIJKIGHOJ	1973.	LARTRLCWYZEX
1934.	HUYXQDEXEBKL	1974.	JWUNEOXVWNWB
1935.	ZZIKTYLHDJRL	1975.	GNDHOEKAOTEN
1936.	RRKRHECIMEZJ	1976.	BSJIQOFUCWWR
1937.	KNIMUHBJOJFL	1977.	CMALXDOYANNS
1938.	UKOPGKFASPEZ	1978.	BMNFHAHJMUJP
1939.	AGNYMQPNNEML	1979.	RTVFMLBJBSPI
1940.	PSOBJEKKHTLF	1980.	IOWXGWERGTUT
1941.	YGEEZQCDDOBX	1981.	KXVSSZKIREBD
1942.	YTNOGBBPVUEU	1982.	WRZYIGAPCUXQ
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.	HBERKGWFQHHP	1991.	NJZONUGHRFKV
1952.	VKCIEQILJZPU	1992.	OFOLJPGOBLSY
1953.	SXFEVWPJZHLW	1993.	FGMWEMNCKNWY
1954.	KMDJFMDFRCJW	1994.	RHFJFIYIUMZZ
1955.	VYMTSDKTFBCS	1995.	VQUONXSEHCGH
1956.	YCOCDBMEOFFQ	1996.	ENKMKUWITQDY
1957.	SIHNMFHRRKMG	1997.	UIRETXMUXOBQ
	KAGZEKBWLFVK	1998.	MHSPJAFOEWIX
1959.	YRPKAZJHRQVW	1999.	HVFDNCJOYVGV
1960.	CXIEHYBBSWHN	2000.	SVRICMJYHMKS
	LZNAOIFGJPRZ		JZFFUGBXYLPW
1962.	LMSZFCOEMCJJ	2002.	DNEHKTYXJUDS
1963.	ZRAUPTKJCTMI	2003.	AENBUJLDBAMG
1964.	ATOCNAUUWJCM	2004.	IUADWHUWIWGU
1965.	DWNMJXYRGYFO	2005.	FABNVGZZWHYN
	ZPIOAZREAHZR	2006.	WTJDOKZHWZZF
	UNHZONKURQYD		RKXMSYMVQHCP
1968.	ZDHKATEMYXGY	2008.	RJAZWKAZBMNW

### APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY RELATED TO LLNL CASE NO. TC-2030-01, PAGE 35 OF 35

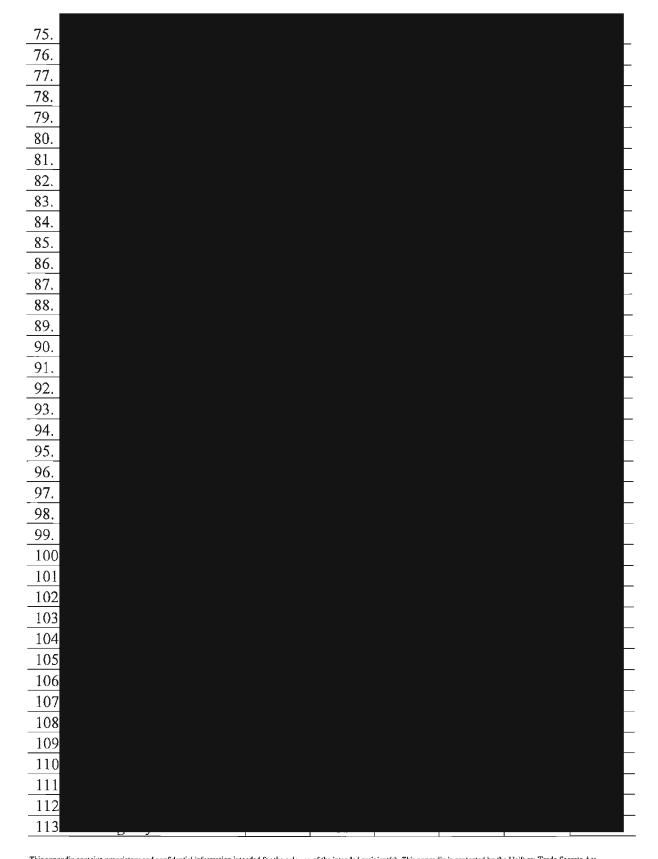
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### APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY RELATED TO LLNL CASE NO. TC-2030-01, PAGE 36 OF 36



### APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY RELATED TO LLNL CASE NO. TC-2030-01, PAGE 37 OF 37



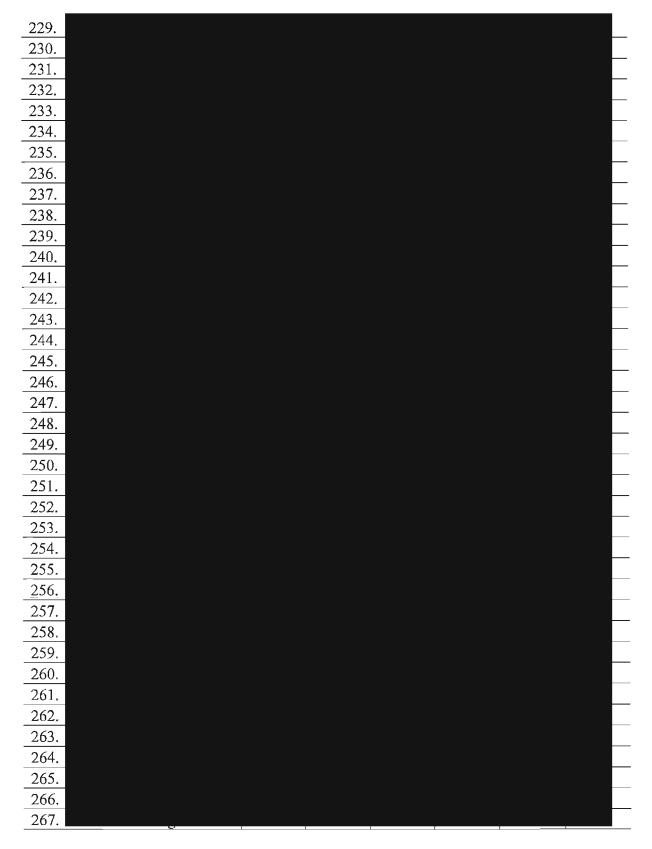
### APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY RELATED TO LLNL CASE NO. TC-2030-01, PAGE 38 OF 38

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## APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY RELATED TO LLNL CASE NO. TC-2030-01, PAGE 39 OF 39

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### APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY RELATED TO LLNL CASE NO. TC-2030-01, PAGE 41 OF 41



### APPENDIX D - BACKGROUND INTELLECTUAL PROPERTY RELATED TO LLNL CASE NO. TC-2030-01, PAGE 42 OF 42

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