

APPENDIX B – LOAN GUARANTEES FOR PROJECTS THAT EMPLOY
INNOVATIVE TECHNOLOGIES; GUIDELINES FOR PROPOSALS SUBMITTED IN
RESPONSE TO THE FIRST SOLICITATION UNDER TITLE XVII OF THE
ENERGY POLICY ACT OF 20056450-01-P

DEPARTMENT OF ENERGY

**Loan Guarantees for Projects that Employ Innovative Technologies; Guidelines for
Proposals Submitted in Response to the First Solicitation**

AGENCY: Department of Energy (DOE).

ACTION: Notice.

SUMMARY: DOE publishes policy guidelines that DOE intends to use in connection with the first solicitation of proposals for a loan guarantee for Eligible Projects under Title XVII of the Energy Policy Act of 2005 that are expected to contribute to the goals of the President's Advanced Energy Initiative.

EFFECTIVE DATE: The guidelines in this Notice are effective August 14, 2006.

FOR FURTHER INFORMATION CONTACT:

Director
DOE Loan Guarantee Program Office
1000 Independence Avenue, S.W.
Washington, D.C. 20585-0121
Phone: 202-586-8336
Email: lgprogram@hq.doe.gov

With a copy to:

Warren Belmar
Deputy General Counsel for Energy Policy
Office of the General Counsel
1000 Independence Avenue, S.W.
Washington, D.C. 20585-0121

SUPPLEMENTARY INFORMATION:

Introduction

Title XVII of the Energy Policy Act of 2005 (42 U.S.C. 16511-16514) authorizes the Secretary of Energy, after consultation with the Secretary of the Treasury, to make loan guarantees for projects that “avoid, reduce, or sequester air pollutants or anthropogenic emissions of greenhouse gases; and employ new or significantly improved technologies as compared to commercial technologies in service in the United States at the time the guarantee is issued.” Commercial technology is defined as a technology in general use in the marketplace. More specifically, Title XVII identifies ten discrete categories of projects that are eligible for a loan guarantee, including those that employ:

1. Renewable energy systems;
2. Advanced fossil energy technology (including coal gasification meeting the criteria in subsection 1703(d));
3. Hydrogen fuel cell technology for residential, industrial, or transportation applications;
4. Advanced nuclear energy facilities;
5. Carbon capture and sequestration practices and technologies, including agricultural and forestry practices that store and sequester carbon;
6. Efficient electrical generation, transmission, and distribution technologies;
7. Efficient end-use energy technologies;
8. Production facilities for fuel efficient vehicles, including hybrid and advanced diesel vehicles;
9. Pollution control equipment; and

10. Refineries, meaning facilities at which crude oil is refined into gasoline.

A principal purpose of the Title XVII loan guarantee program is to encourage early commercial use in the United States of new or significantly improved technologies in energy projects. DOE's loan guarantee program is not intended for technologies in research and development. Indeed as section 1702(d) requires a "reasonable prospect of payment" of any loan or debt obligation issued to a project, technologies for project proposals should be mature enough to assure dependable commercial operations and generate sufficient revenues, and not solely a demonstration project (i.e., a project designated to demonstrate feasibility of a technology on any scale). DOE believes that accelerated commercial use of these new or improved technologies will help to sustain economic growth, yield environmental benefits, and produce a more stable and secure energy supply.

Today, DOE begins implementation of Title XVII with two actions. First, DOE publishes guidelines in the nature of a general statement of policy that DOE intends to apply **only** to the first solicitation of projects. Second, DOE makes available the first solicitation for Pre-Applications for Federal Loan Guarantees for Projects that Employ Innovative Energy Technologies by posting it on the internet at: <http://www.LGProgram.energy.gov/>. Neither a procurement action (under Title 48 of the Code of Federal Regulations) nor a financial assistance award (under 10 CFR Part 600) is contemplated by these guidelines and the solicitation. As further described in the solicitation, interested parties are being asked to file an initial Pre-Application for review by DOE. If the Pre-Application meets the suggested requirements of these guidelines, DOE may invite the interested party to submit a comprehensive Application.

DOE anticipates receiving a significant volume of interest in the loan guarantee program, and therefore plans to issue multiple solicitations, following adoption of final regulations within the next year, that will cover the broad array of eligible projects under Title XVII. Applicants who respond to the solicitation but are not approved for a loan guarantee may submit a new or revised proposal in response to future solicitations under the final regulations DOE plans to adopt. DOE does not intend to review Pre-Applications or approve loan guarantees for any proposal that is outside the scope and does not conform with the specific requirements of the initial solicitation. Likewise, only comprehensive applications submitted by interested parties that were invited by DOE to submit a comprehensive application for a Title XVII loan guarantee as a result of the initial solicitation will be considered for a loan guarantee.

While most provisions of today's guidelines are not legally binding, please note that some provisions of these guidelines are based on non-discretionary provisions of law in Title XVII and under the Federal Credit Reform Act of 1990, 2 U.S.C. 661 et seq. ("FCRA"). For example, section 1702(f) of Title XVII specifically limits the term of the loan guarantee by stating that "the term of an obligation shall require full repayment over a period not to exceed the lesser of (i) 30 years or (ii) 90 percent of the projected useful life of the physical asset to be financed by the obligation (as determined by the Secretary)." Hence, Applicants should provide a detailed analysis of the expected and generally accepted life cycle of the primary technology and project facility that is the focus of the financing as DOE cannot issue a guarantee that will extend beyond 90 percent of such life cycle or a 30-year term, whichever is shorter.

Moreover, FCRA requires that Congress must authorize Federal loan guarantees

in an appropriations act in advance of the execution of a final binding loan guarantee agreement. See 2 U.S.C. 661c(b). This requirement applies even though Title XVII allows for the cost of a loan guarantee, as defined in 2 U.S.C. 661a(5)(C), to be paid by the recipient, see 42 U.S.C. 16512(b)(2), and even though today's guidelines provide for a Conditional Commitment that will precede the execution of a final binding Loan Guarantee Agreement. As a result, DOE is currently restricted only to reviewing Pre-Applications and Applications and entering into Conditional Commitments until it obtains the requisite authorization in an appropriations act. DOE may not enter into a binding Loan Guarantee Agreement or issue any loan guarantees until this appropriations authority has been granted.

Discussion of the Guidelines

In this portion of the **SUPPLEMENTARY INFORMATION**, DOE highlights key provisions and, as appropriate, explains the basis for them.

For the first solicitation, these guidelines set forth the type of information that interested parties are expected to include in a Pre-Application and, if invited by DOE, the type of information that Applicants should additionally include in an Application. Information is also provided in these guidelines as to the determining factors that DOE expects to apply in its review of project proposals. DOE intends to evaluate each Pre-Application and Application taking into consideration, among other things, the requirements and conditions contained in the solicitation, the criteria specified under Title XVII to identify Eligible Projects, the project's ability to optimize the probability of repayment of Guaranteed Obligations, and how the project furthers the goals of the

President's Advanced Energy Initiative.¹ Please note that even if a Pre-Application or Application contains all of the information specified in these guidelines, DOE retains the right, in its sole discretion, to inform any Applicant that their project proposal has been denied further review.

The guidelines, in accordance with Section 1702(c), provide that any loan guarantee issued by DOE may not exceed 80 percent of total Project Costs. Section VII of the guidelines generally defines Project Costs as those that are necessary, reasonable, and directly related to the design, construction, and startup of a project. Conversely, excluded costs which are also described with greater specificity in Section VII of the guidelines include initial research and development costs and operating costs after the facility has been constructed.

In addition, DOE notes that the Subsidy Cost of the loan guarantee, as well as fees paid for by the Borrower for the Administrative Cost of Issuing a Loan Guarantee, are excluded from Project Costs. As defined in 2 U.S.C. 661a(5)(C), the Subsidy Cost is not a tangible cost associated with the financing or construction of the project facility.

Rather, it constitutes the expected long-term liability to the Federal government in issuing the loan guarantee. In addition, DOE believes that it would be undesirable to allow Borrowers to count the Subsidy Cost (including the financing cost of a Borrower paid Subsidy Cost) as a Project Cost, whether funded by an appropriation or by payment made by the Borrower. To do so could have the effect of including the Subsidy Cost as an

¹ One factor that warrants mentioning here is that a proposed project should be constructed and operated in the United States. DOE believes that the environmental benefits and deployment of new and/or enhanced technologies associated with projects should reside within the United States. In such circumstances it will be easier for DOE to monitor the project, ensure repayment of guaranteed debt in accordance with section 1702(d), and enforce its rights in the event of default.

allowable cost under the loan guarantee, and thus put the Federal government at risk for up to 80 percent of its Subsidy Cost requirement. Additionally, the Borrower paid Subsidy Cost can not be paid from the proceeds of federally guaranteed or funded debt. For similar reasons, fees required under Section 1702(h) of the Act to cover DOE's administrative expenses are also disallowed from Project Costs, thereby ensuring that the loan guarantee does not place the Federal government at risk for up to 80% of these statutorily required fees.

Consistent with section 1702(b), the guidelines specify that DOE must receive either an appropriation for the Subsidy Cost or payment of that cost by the Borrower. No funds have been appropriated for the Subsidy Cost of loan guarantees; therefore DOE anticipates that the project(s) approved pursuant to the first solicitation will require the Borrower to pay this cost. The guidelines specify that a Project Sponsor should include an estimate of the Subsidy Cost in an Application. In accordance with 2 U.S.C. 661b(a), DOE will then perform its own independent calculation of the Subsidy Cost and will consult and obtain the approval of the Office of Management and Budget for this computation prior to entering into any Loan Guarantee Agreement. DOE will also consult with the Secretary of Treasury prior to entering into any Loan Guarantee Agreement. The Applicant will be required to provide updated information at the time of the Loan Guarantee Agreement, should any of the terms of the project financing or project terms change between Conditional Commitment and the Loan Guarantee Agreement.

In addition to the Subsidy Cost, section 1702(h) also requires DOE to collect fees to cover the administrative expenses of issuing loan guarantees. The guidelines specify

that DOE will collect fees for administrative expenses as provided for in the Conditional Commitment, as well as additional fees during the term of a loan guarantee. These fees will consist of the administrative expenses that DOE incurs during:

- (i) The evaluation of the Pre-Application and Application;
- (ii) The offering, negotiation, and closing of a loan guarantee; and
- (iii) The servicing of the loan guarantee and monitoring the progress of a project.

Title XVII, and section 1702(h) in particular, afford DOE discretion with respect to how it imposes fees to cover applicable administrative costs. For this first solicitation, DOE has elected not to impose such fees in connection with the Pre-Application stage. In effect, this means that Project Sponsors who submit Pre-Applications and are denied further consideration will not be charged any fees for expenses incurred by DOE in reviewing their Pre-Application materials. For project proposals that progress to the Application stage, the invitation to submit an Application that DOE will send to Project Sponsors will specify whether DOE is charging an Application fee, and the amount of any such fee. In addition to the Application fee that DOE may assess, the other administrative fees that DOE will collect in connection with the first solicitation will be from Borrowers who enter into a Conditional Commitment, in an amount sufficient to cover DOE's administrative expenses applicable to that Borrower's Pre-Application, Application, Term Sheet, Conditional Commitment, the Loan Guarantee Agreement, and subsequent monitoring and servicing expenses. With respect to future solicitations, DOE may decide to assess a Pre-Application and/or an Application fee. DOE will revisit this issue in the forthcoming regulations that DOE will propose for public comment later this

year.

As for the financing structure of proposed projects, Title XVII does not impose any specific limitations, other than the guarantee “shall not exceed an amount equal to 80 percent of the project cost of the facility that is the subject of the guarantee as estimated at the time at which the guarantee is issued.” 42 U.S.C. 16512(c). However, section 1702(d)(1) provides: “No guarantee shall be made unless the Secretary determines that there is reasonable prospect of repayment of the principal and interest on the obligation by the borrower.” 42 U.S.C. 16512(d)(1). DOE believes this statutory provision requires DOE to make repayment of debt a very high priority of the loan guarantee program and authorizes DOE to adopt policies that ensure that Borrowers and Lenders have a similar motivation and use their best efforts to ensure repayment. Thus, DOE would prefer to limit the financial risk to the Federal government from the first loan guarantees issued under Title XVII as DOE gains valuable experience and expertise with these financial and commercial arrangements. This intention is bolstered by the mandate of Section 1702(g)(2)(B), which requires that “with respect to any property acquired pursuant to a guarantee or related agreements, [the Secretary] shall be superior to the rights of any other person with respect to the property.” This statutory provision requires DOE to possess a first lien priority in the assets of the project and other collateral security pledged. Because DOE is not permitted by Title XVII to adopt a *pari passu* financing structure, any holders of non-guaranteed debt have a subordinate claim to DOE in the event of default, and will not be able to recover on their debt until DOE’s claim is paid in full.

To harmonize and balance the twin goals of issuing loan guarantees to encourage

early commercial use of new or significantly improved technologies in Eligible Projects while limiting the financial exposure of the Federal government, DOE's first solicitation expresses a preference that DOE not guarantee more than 80 percent of the total face value of any single debt instrument. Under no circumstance does DOE intend to guarantee 100 percent of the loan. Accordingly, if a Borrower seeks a loan guarantee for more than 80 percent of the face value of the underlying debt obligation, DOE's review of the project proposal to determine whether to approve a loan guarantee for such amount will be predicated on the sufficiency of evidence presented by the Borrower in support of a higher guarantee percentage.² DOE notes however, that higher guarantee percentages will lead to higher Subsidy Costs.

For similar reasons of increasing the probability of repayment, in reviewing project proposals, DOE intends to consider whether Project Sponsors will make a significant financial commitment to the project. In addition, DOE intends to consider whether a Project Sponsor will rely upon other government assistance (e.g., financial assistance, tax credits, other loan guarantees) to support financing, construction, or operation of the project. DOE does not intend to disqualify project proposals that employ other forms of Federal and non-Federal government assistance, but in reviewing proposals, DOE will take into account how much equity will be invested and the extent of the financial risk borne by the Project Sponsor.³

² DOE does not have a preference as to whether non-Projects Costs, as defined in Section VII of these guidelines, are financed with debt or equity, as long as DOE maintains a first lien priority in the assets of the project and other collateral pledged as security.

³ Since the guidelines are not substantive regulations, DOE will not reject project proposals solely on the basis of the guidelines. However, Applicants are advised of their heavy burden of justification if they seek to persuade DOE to accept risk in excess of the outer boundaries of what the guidelines indicate to be preferable.

In connection with any loan guaranteed by DOE that may be syndicated, traded, or otherwise sold on the secondary market, DOE will require that the guaranteed portion and non-guaranteed portion of the debt instrument are resold on a pro-rata basis. The guaranteed portion of the debt may not be “stripped” from the non-guaranteed portion, i.e. sold separately as an instrument fully guaranteed by the Federal government.

In further support of DOE’s objective to ensure full repayment of debt, DOE expects that participating Lenders will have to meet certain eligibility requirements, as described in greater detail in Section VI of these guidelines. These criteria are intended to ensure that the Lender has the financial wherewithal and appropriate experience and expertise to meet its fiduciary obligations in connection with the debt guaranteed by DOE. DOE expects that the Lender and other appropriate parties will exercise a high level of care and diligence in the establishment and enforcement of the conditions precedent to all loan disbursements and Borrower covenants, as provided for in the loan agreement or related documents, throughout the term of the loan. Moreover, DOE also expects each Lender to diligently perform its duties in the servicing and collection of the loan as well as in ensuring that the collateral package securing the loan remains uncompromised. The Lender will also be expected to provide regular, periodic financial reports on the status and condition of the loan, consistent with the terms of the Loan Guarantee Agreement. The Lender is required to promptly notify DOE if it becomes aware of any problems or irregularities concerning the project or the ability of the Borrower to make payment on the loan or other debt obligations.

In addition to the other measures described above limiting the Federal

government's risk exposure, commitments to guarantee loans will not exceed a face value of \$2 billion, in the aggregate, under the first solicitation. Commencing with a loan guarantee program of this size will allow DOE to achieve considerable progress in assisting new or significantly improved energy technologies to market while also enabling DOE to gain valuable experience and expertise that it will incorporate in program regulations and apply to future solicitations. DOE recognizes that some project proposals that would otherwise merit full consideration for a loan guarantee under these guidelines will, because of DOE's self-imposed ceiling on loan guarantee commitments, have to await full consideration under future solicitations issued under the final regulations. To accommodate concerns of Project Sponsors whose proposals are deferred full consideration because they either exceed or comprise a substantial amount of the total loan guarantee commitments available under the first solicitation, DOE will consider whether such proposals should be afforded expedited consideration under the final regulations, when adopted.

Finally, please note that the solicitation issued in conjunction with these guidelines addresses many important aspects of the application process, including the relevant period of time during which Pre-Applications for loan guarantees may be filed. Because each project will be unique and each loan guarantee potentially subjects the Federal government to significant financial liability, DOE plans to engage in a rigorous review of a proposed project before determining that it may be eligible for a loan guarantee or subsequently approving and issuing a loan guarantee.

National Environmental Policy Act (NEPA)

Through the issuance of these guidelines DOE is making no decision relative to

the approval of a loan guarantee for a particular proposed project. DOE has therefore determined that publication of the policy guidelines is covered under the Categorical Exclusion found at paragraph A.6 of Appendix A to Subpart D, 10 CFR Part 1021, which applies to the establishment of procedural rulemakings. Accordingly, neither an environmental assessment nor an environmental impact statement is required at this time. However, appropriate NEPA project review will be conducted prior to execution of a Loan Guarantee Agreement.

Review Under the Paperwork Reduction Act

These guidelines provide that Pre-Applications submitted to DOE in response to the solicitation and Applications, if invited by DOE, should contain certain information. This collection of information must be approved by the Office of Management and Budget pursuant to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.) and the procedures implementing that Act, 5 CFR 1320.1 et seq. DOE is requesting emergency processing of the Paperwork Reduction Act Submission for this collection of information pursuant to 5 CFR § 1320.13. DOE is requesting that OMB approve the collection of information prior to the issuance of the solicitation. This emergency collection will be valid for 180 days. Shortly after OMB's approval of the emergency collection, DOE will issue a notice seeking public comment on the information collection and will submit the proposed collection of information to OMB for approval pursuant to 44 U.S.C. 3507(a). An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number.

Issued in Washington, DC on August 14, 2006

James T. Campbell
Acting Chief Financial Officer

**Loan Guarantees for Projects that Employ Innovative Technologies;
Guidelines for Proposals Submitted in Response to First Solicitation under Title
XVII of the Energy Policy Act of 2005**

I. Purpose

These guidelines set forth goals and procedures that the Department of Energy (“DOE”) intends to use for receiving, evaluating, and, after consultation with the Secretary of the Treasury, approving applications for loan guarantees to support Eligible Projects under Title XVII of the Energy Policy Act of 2005.

II. Definitions

As used in these guidelines:

A. “Act” means Title XVII of the Energy Policy Act of 2005 (42 U.S.C. 16511-16514).

B. “Administrative Cost of Issuing a Loan Guarantee” means the combined total of all of the administrative expenses that DOE incurs during:

1. The evaluation of a Pre-Application and an Application for a loan

guarantee;

2. The offering, negotiation, and closing of a loan guarantee; and
3. The servicing of the loan guarantee and monitoring the progress of a project benefiting from a loan guarantee issued by DOE.

Payment of the Administrative Cost of Issuing a Loan Guarantee, which is required to be collected by DOE under section 1702(h) of the Act, is wholly distinct and separate from payment of the Subsidy Cost.

C. “Applicant” means any firm, corporation, company, partnership, association, society, trust, joint venture, joint stock company, or governmental non-Federal entity, that has the authority to enter into, and is seeking, a loan guarantee issued by the Secretary for a loan or other debt obligation of an Eligible Project under the Act.

D. “Application” means a written submission in response to a DOE invitation to apply for a loan guarantee that DOE will solicit from Applicant after reviewing and approving a completed Pre-Application, and which should include the items listed in Section III.F. of these guidelines.

E. “Borrower” means any project company or entity that enters into a loan or other debt obligation for an Eligible Project.

F. “Commercial Technology” means a technology in general use in the commercial marketplace, but does not include a technology solely by use of such technology in a demonstration project funded by DOE.

G. “Conditional Commitment” means a Term Sheet offered by DOE and accepted by the Applicant, with the understanding of the parties that the Applicant

thereafter satisfies all specified and precedent funding obligations, and all other contractual, statutory, regulatory or other requirements.

H. “Credit Review Board” means a board created by DOE in accordance with Office of Management and Budget (OMB) Circular A-129 to oversee the loan guarantee program and approve loan guarantees for individual projects.

I. “Eligible Project” means a project located in the United States that meets the applicable requirements of section 1703 of the Act.

J. “Guaranteed Obligations” mean loans or other debt obligations that the Secretary guarantees under a Loan Guarantee Agreement.

K. “Holder” means any individual or legal entity that has lawfully succeeded in due course to all or part of the rights, title, and interest in a Guaranteed Obligation.

L. “Lender” or “Eligible Lender” means any individual or legal entity, approved by DOE, formed for the purpose of, or engaged in the business of, lending money, including, but not limited to, commercial banks, savings and loan institutions, insurance companies, factoring companies, investment banks, institutional investors, venture capital investment companies, trusts, or other entities designated as trustees or agents acting on behalf of bondholders or other lenders.

M. “Loan Guarantee Agreement” means a written agreement that, when entered into by a Borrower, a Lender and the Secretary pursuant to the Act after satisfaction of the conditions precedent specified in the Conditional Commitment and any other applicable contractual, statutory, and regulatory requirements, establishes the obligation of the Secretary to guarantee payment of principal and

interest on specified loans or other debt obligations of a Borrower to the Lender subject to the terms and conditions specified in the Loan Guarantee Agreement.

The term “Loan Guarantee Agreement” has the same meaning as a “loan guarantee commitment” (as defined in section 502(4) of the Federal Credit Reform Act of 1990 (2 U.S.C. 661a)).

N. “Project Costs,” as described with greater specificity in Section VII of these guidelines, means the estimated sum of the amounts to be expended or accrued by Borrower for costs that are necessary, reasonable, and directly related to the design, construction, and startup of an Eligible Project.

O. “Project Sponsor” means any individual, firm, corporation, company, partnership, association, society, trust, joint venture, joint stock company or the like that assumes substantial responsibility for the development, financing, and structuring of a project eligible for a loan guarantee and owns or controls the Applicant.

P. “Pre-Application” means a written submission in response to a solicitation that broadly describes the project proposal, including the proposed role of a loan guarantee in the project and the eligibility of the project to receive a loan guarantee under the Act, and includes the items listed in Section III.C. of these guidelines.

Q. “Secretary” means the Secretary of Energy or designee.

R. “Subsidy Cost” has the meaning given the term “cost of a loan guarantee” within the meaning of section 502(5)(C) of the Federal Credit Reform Act of 1990 (2 U.S.C. 661a(5)(C)). The “Subsidy Cost” represents the net present value,

at the time when the guaranteed loan or other debt obligation is disbursed, of the expected liability to the Federal government from issuing the loan guarantee, inclusive of estimated payments to be made by the Federal government, such as default payments, and estimated payments to be made to the Federal government such as recoveries. The Subsidy Cost amount is required by section 1702(b) of the Act to be funded either by an appropriation or by payment by Borrower. Payment of the Subsidy Cost is wholly distinct and separate from payment of the Administrative Cost of Issuing a Loan Guarantee.

S. “Term Sheet” means an offering document issued by DOE that specifies the general terms and conditions under which DOE anticipates it may guarantee payment of principal and accrued interest on specified loans or other debt obligations of a Borrower in connection with an Eligible Project. A Term Sheet is not a Loan Guarantee Agreement and imposes no obligation on the Secretary to execute a Loan Guarantee Agreement.

III. Loan Guarantee Application Process

A. In conjunction with these guidelines, DOE is issuing a solicitation announcement to solicit the submission by Project Sponsors of Pre-Applications for loan guarantees for projects that employ innovative technologies. The guidelines will apply to this first solicitation; all future solicitations will be issued pursuant to program regulations that DOE will promulgate at a later time.

B. The solicitation announcement issued in conjunction with these guidelines contains, among other things, the following information:

1. A brief description of the Eligible Projects for which loan guarantee

applications are solicited;

2. The place and time for Pre-Application submission;
3. The name and address of the DOE representative whom potential applicants may contact to receive further information and a copy of the solicitation; and
4. The form, format and page limits applicable to the submission of a Pre-Application.

C. In response to the solicitation, interested parties are invited to submit Pre-Applications to DOE. Pre-Applications should meet all requirements specified in the solicitation; DOE does not intend to review or approve loan guarantees for proposals that do not meet the requirements provided for in the solicitation. In addition, the Pre-Application should contain the following information and documentation:

1. A completed Pre-Application form signed by an individual with full authority to bind the Project Sponsor;
2. A business plan including an overview of the proposed project including:
 - a) A description of the Project Sponsors, including their experience in project investment, development, construction, operation and maintenance;
 - b) A description of the technology to be utilized, including its commercial applications and social uses, the owners or controllers of the intellectual property incorporated in and utilized by such

technology, and its manufacturer(s), and licensees, if any, of the technology authorized to make the technology available in the United States, and whether and how the technology is or will be made available in the United States for further commercial use;

c) The estimated amount of the total Project Costs (including escalation and contingencies);

d) The timeframe required for construction and commissioning of the facility; and

e) A description of the primary off-take or revenue-generating agreement(s) that will primarily provide financial support for the project.

3. A financing plan overview describing the amount of equity to be invested and the sources of such equity, the amount of the total debt obligations to be incurred and the funding sources of all such debt, the anticipated guarantee percentage of the Government-guaranteed debt, and a financial model detailing the investments and the cash flows generated from the project over the project life-cycle;

4. An explanation of what impact the loan guarantee will have on the interest rate, debt term, and overall financing structure for the project;

5. A copy of a commitment letter from an Eligible Lender expressing its commitment to provide the required debt financing necessary to construct and fully commission the project subject to commercially reasonable conditions governing disbursement commonly included in arm's length

debt financing arrangements for projects and loan amounts similar to the proposed project;

6. A copy of the equity commitment letter(s) from each of the Project Sponsors and a description of the sources for such equity;

7. An overview of how the project will comply with the eligibility requirements under section 1703 of the Act;

8. An outline of the potential environmental impacts of the project and how these impacts will be mitigated;

9. A description of the anticipated air pollution and greenhouse gas reduction benefits;

10. A description of how the proposed project advances the President's Advanced Energy Initiative; and

11. An executive summary briefly encapsulating the key project features and attributes.

D. In reviewing completed Pre-Applications, DOE intends to utilize the criteria referenced in the Act, the solicitation, and these guidelines.⁴ In addition, prior to a comprehensive evaluation, an initial review of the Pre-Applications will be performed to determine the following:

1. The proposal is for an Eligible Project; and
2. The submission contains the information requested by the solicitation.

If a Pre-Application fails to meet these requirements, it may be deemed non-responsive and eliminated from further review. As part of the subsequent and

⁴ While these factors are designed for review of Pre-Applications, DOE intends to use these factors, as appropriate, in reviewing Applications as well.

more comprehensive Pre-Application review, DOE may conduct an independent review of the financial capability of an Applicant (including personal credit information of the principal(s) if there is insufficient information to assess the financial capability of the organization). In addition, DOE may ask for additional information during the review process and may request one or more meetings with the Project Sponsor(s).

E. After reviewing a completed Pre-Application, DOE will provide a written response to the Project Sponsor.⁵ In this response, DOE will do one of two things. DOE will either invite an Applicant to submit a comprehensive Application for a loan guarantee and specify the amount of the Application fee that DOE has decided to assess, if any, or DOE will advise the Project Sponsor that the project proposal is ineligible for further consideration in the review process under the guidelines. Project Sponsors whose proposals are denied further review will not be barred from re-submitting an updated or revised project proposal in response to future solicitations under the final regulations to be adopted by DOE.

F. In response to an invitation to submit an Application, interested Applicants are expected to meet all requirements specified in the invitation, the solicitation and these guidelines. DOE will be expecting that the information and documentation requested, as well as the substance and content of such documentation required

⁵ While DOE intends to review Applicant's written submission, neither the Pre-Application nor any written or other feedback that DOE may provide in response to the Pre-Application is intended to obviate the need for an Application. In addition, any response that DOE may provide to a Pre-Application or subsequent Application does not obligate DOE to issue a loan guarantee for a project; only a duly executed Loan Guarantee Agreement may contractually obligate DOE to guarantee any loan or other debt obligations.

for the Application, will conform substantially with that produced during the course of an arm's length commercially negotiated project or commercial financing. The maturity, balance sheet and experience of the Project Sponsors, the credit rating of the Lenders and the off-take counterparties, and the scope and breadth of the security package supporting the loan are additional important factors that DOE will consider in its review of an Application.⁶ An Application should include, among other things, the following information and materials:

1. A completed Application form signed by an individual with full authority to bind Applicant;
2. Payment of the Application fee, if any;
3. A detailed description of all material amendments, modifications, and additions made to the information and documentation provided in the Pre-Application, including any changes in the proposed project's financing structure or terms;
4. A description of the nature and scope of the proposed project, including key milestones, location of the project, identification and commercial feasibility of the new or significantly improved technology(ies) to be employed in the project, how Applicant intends to employ such technology(ies) in the project, and how the Applicant or others intend to assure the further commercial availability of the technology(ies) in the United States;

⁶ Additional factors that DOE expects to consider when reviewing Applications are described in Section IV of these guidelines.

5. A detailed explanation of how the proposed project qualifies as an Eligible Project;
6. A detailed estimate for the total Project Costs (including escalation and contingencies), together with a description of the methodology and assumptions used;
7. An estimate of the amount of the Subsidy Cost for the project, including a description of the methodology used for this calculation and any supporting documentation;
8. A detailed description of the construction contractor(s) and equipment supplier(s), construction schedules for the project including major activity and cost milestones as well as the performance guarantees, performance bonds, liquidated damages provisions, and equipment warranties to be provided;
9. A detailed description of the operations and maintenance provider(s), the plant operating plan, estimated staffing requirements, parts inventory, major maintenance schedule, estimated annual downtime, and performance guarantees and related liquidated damage provisions, if any;
10. A description of the management plan of operations that Applicant will employ in carrying out the project, and information concerning the management experience of each officer or key person associated with the project;

11. A detailed description of the project decommissioning, deconstruction and disposal plan and the anticipated costs associated therewith;
12. An analysis of the market for the product(s) to be produced by the project, including relevant economics justifying the analysis, and copies of any contractual agreements for the sale of these products or assurance of the revenues to be generated from sale of these products;
13. A detailed description of the overall financial plan for the proposed project, including all sources of funding, equity, and debt, and the liability of parties associated with the project over the lifetime of the requested loan guarantee;
14. A copy of all loan documents that Borrower and Lender will sign if the Application for a loan guarantee is approved, containing all of the terms and conditions of the loan or other debt obligations to be guaranteed, including the proposed amount of the loan, interest charges, repayment position, principal repayment schedule, fees, pre-payment and late payment penalties, and cure rights;
15. A copy of all material agreements, whether entered into or proposed, relevant to the investment, construction and commissioning of the project;
16. A copy of the financial closing checklist for the equity and debt;
17. Applicant's business plan on which the project is based and project pro forma statements for the proposed life of the loan guarantee, including income statements, balance sheets, and cash flows. All such statements

should include assumptions made in their preparation and the range of revenue, operating cost, and credit assumptions considered;

18. Financial statements for the past three (3) years that have been audited by an independent certified public accountant, including all associated notes, as well as interim financial statements and notes for the current fiscal year, of Applicant and parties relevant to Applicant's financial backing, together with business and financial interests of principal organizations, if appropriate, such as parent and subsidiary corporations or partners of Applicant;

19. A copy of all legal opinions, engineering reports, and other material reports, analysis, and reviews related to the project;

20. Credit history of Applicant and, if appropriate, any party who owns or controls a five percent or greater interest in the project or the Applicant;

21. A preliminary credit assessment for the project without a loan guarantee from a nationally recognized rating agency;

22. A list of all project-related applications filed and approvals issued by Federal, state, and local government agencies for permits and authorizations to site, construct, and operate the project. If still outstanding, the Application should contain an estimated date of completion for any required filings and approvals;

23. A report containing an analysis of the potential environmental impacts of the project that will enable DOE to assess whether the project will comply with all applicable environmental requirements and how and

to what measurable extent the project avoids, reduces, or sequesters air pollutants or anthropogenic emissions of greenhouse gases, including how Borrower intends to verify those benefits;

24. A listing of assets associated, or to be associated, with the project and any other asset that will serve as collateral for the guaranteed loan and assure repayment of the loans and other debt obligations of the project, including appropriate data as to the value and useful life of any physical assets and a description of any other associated security and its value. With respect to any ownership interest in a real property asset described above or any pledged asset that is not part of the project, an appraisal should be performed by state licensed or certified appraisers that is consistent with the “Uniform Standards of Professional Appraisal Practice,” promulgated by the Appraisal Standards Board of the Appraisal Foundation;

25. An analysis demonstrating that at the time of the Application, there is a reasonable prospect that Borrower will be able to repay the loan or other debt obligation to be guaranteed (including interest) according to its terms, and a complete description of the operational and financial assumptions on which this demonstration is based;

26. Written affirmation from an officer of the Lender confirming that Lender is an Eligible Lender in good standing with DOE’s and other agencies’ loan guarantee programs; and

27. Such other information requested in the solicitation or invitation to submit an Application necessary for a complete assessment of the loan guarantee application for the project.

G. Following Applicant's submission of an Application, DOE will review the Application based on the factors mentioned in subsection F of Section III and Section IV of the guidelines. If the Credit Review Board determines that a project may be suitable for a loan guarantee, because, among other things, it qualifies as an Eligible Project, there exists a reasonable expectation of payment based on the materials provided in the Application, and the proposed project will advance the President's Advanced Energy Initiative, DOE may notify the Borrower and Lender in writing and provide them with a copy of a proposed Term Sheet. In the event that DOE reviews an Application and decides not to proceed further with the issuance of a proposed Term Sheet, DOE will inform Applicant in writing the reason(s) for the denial.

H. Concurrent with the review process described above, DOE will consult with the U.S. Department of Treasury regarding the terms and conditions of the potential loan guarantee and will work with OMB to determine the Subsidy Cost for a potential loan guarantee based on the particular set of terms and conditions associated with the project. OMB will ultimately review and approve the final determination of the Subsidy Cost.

I. Subsequent to any negotiations and revisions of the proposed Term Sheet including the Subsidy Cost in accordance with subsection H of Section III of the guidelines, the Term Sheet becomes a Conditional Commitment if, and only if,

both DOE and Applicant agree to the proposed terms and conditions and sign the Term Sheet. Among other things, the Conditional Commitment will specify the required payment of fees for the Administrative Cost of Issuing a Loan Guarantee. Subsequent to entering into a Conditional Commitment, and upon agreement as to the detailed terms and conditions to be contained in the Loan Guarantee Agreement and other related documents, as well as availability of authority provided in an appropriations act for the loan guarantee, and fulfillment of other applicable statutory, regulatory, or other requirements, the Credit Review Board will set a closing date. DOE will enter into a Loan Guarantee Agreement with an Applicant that satisfies the specified conditions precedent if and only if all funding and other contractual, statutory and regulatory requirements have been satisfied.

J. Prior to the closing date, the Secretary will ensure that:

1. Pursuant to section 1702(b) of the Act, Congress has made an appropriation for the Subsidy Cost of the loan guarantee, or that the Secretary will receive payment in full from the Borrower as part of the closing and Congress has provided sufficient additional authority in an appropriations act;
2. Pursuant to section 1702(h) of the Act, and in accordance with Section V.R. of these guidelines, the Secretary has received from Borrower payment of a fee for DOE's Administrative Cost of Issuing a Loan Guarantee or will receive payment of the fee as part of the closing;
3. The Director of OMB has reviewed and approved DOE's calculation

- of the Subsidy Cost of the loan guarantee;
4. The Secretary of the Treasury has been consulted as to the terms and conditions of the Loan Guarantee Agreement;
 5. The Loan Guarantee Agreement and related documents contain all terms and conditions the Secretary deems reasonable and necessary to protect the interests of the United States; and
 6. All conditions precedent specified in the Conditional Commitment have either been satisfied or waived by the Secretary and all other applicable contractual, statutory, and regulatory requirements have been satisfied.

IV. Evaluation of Applications

In evaluating Applications invited for submission, DOE plans to consider the following factors⁷:

⁷ While these factors are designed for review of Applications, DOE intends to use these factors, as appropriate, in reviewing Pre-Applications as well.

- A. Whether the Application is complete, signed by the appropriate entity or entities with the authority to bind the Project Sponsor and other relevant parties to the agreement, and complies with the eligibility requirements stated in the Act, these guidelines, and the solicitation;
- B. Whether the Application contains sufficient information, including a detailed description of the nature and scope of the project and the nature, scope, and risk coverage of the loan guarantee sought, to enable DOE to perform a thorough assessment of the project;
- C. Whether and to what measurable extent the project avoids, reduces, or sequesters air pollutants or anthropogenic emissions of greenhouse gases;
- D. Whether the new or significantly improved technology to be employed in the project, as compared to commercial technologies in service in the United States at the time the guarantee is issued, is ready to be employed commercially in the United States, can yield a commercially viable product(s) in the use proposed in the project, and is or will be available for further commercial use in the United States;
- E. Whether the project will advance the goals of the President's Advanced Energy Initiative;
- F. Whether the requested amount of the loan guarantee is reasonable relative to the nature and scope of the project;
- G. The extent to which Project Costs are funded by guaranteed debt;
- H. The extent to which Applicant and other principals involved in the project have made a significant equity commitment to the project;

- I. Whether the project will be ready for full deployment and operations in the proximate future;
- J. Whether there is sufficient evidence that Applicant will initiate and complete the project in a timely, efficient, and acceptable manner;
- K. Whether and/or to what extent Applicant will rely upon other Federal and non-Federal governmental assistance (grants, tax credits, other loan guarantees, etc.) to support the financing and construction and/or operation of the project;
- L. Whether there is reasonable assurance that the project is economically feasible and will produce sufficient revenues to service the project's debt obligations over the life of the loan guarantee and assure timely repayment of guaranteed loans and other debt obligations;
- M. Whether the collateral, warranties, and other assurance of repayment described in the Application provide adequate safeguard to the Federal government in the event of default;
- N. Whether Applicant possesses the capacity and expertise to successfully operate the project, based on factors such as financial soundness, management organization, and the nature and extent of corporate and personnel experience;
- O. Whether the project will comply with all applicable laws and regulations, including all applicable environmental statutes and regulations;
- P. Whether the levels of market, regulatory, legal, financial, technological, and other risks associated with the project are appropriate for a loan guarantee provided by DOE;

Q. Whether the entity issuing the loan or other debt obligation subject to the loan guarantee is an Eligible Lender; and

R. Such other criteria that the Secretary and the Credit Review Board deem relevant in evaluating the merits of an Application.

V. Findings by the Secretary

Prior to the issuance by DOE of a loan guarantee, the Secretary should ensure that Applicant satisfies the following requirements and conditions (some or all of which should be specified in the Loan Guarantee Agreement):

A. The project qualifies as an Eligible Project under the Act;

B. The project will be constructed and operated in the United States and the technology is or is likely to be available in the United States for further commercial application;

C. The debt guaranteed by DOE is limited to no more than 80 percent of total Project Costs;

D. The amount of the loan guarantee does not exceed 80 percent of the total face value of the loan or other debt obligation of the project, or provides sufficient evidence to support a guarantee exceeding 80 percent (but in no event 100 percent);

E. Applicant and other principals involved in the project have made a significant equity investment;

F. The prospective Borrower is obligated to make full repayment of the guaranteed loan over a period of up to the lesser of 30 years or 90 percent of the

projected useful life of the project's major physical assets, as calculated in accordance with generally accepted accounting principles and practices;

G. The loan guarantee does not finance, either directly or indirectly, a federally tax-exempt obligation. Accordingly, the loan guarantee may not be used for a federally tax-exempt obligation or serve as collateral to secure a tax-exempt obligation;

H. The guaranteed portion of a loan must not be separated from or "stripped" from the non-guaranteed portion of the loan and resold in the secondary debt market;

I. The amount of the loan guaranteed, when combined with other funds committed to the project, will be sufficient to carry out the project, including adequate contingency funds;

J. There is a reasonable prospect of repayment by Borrower of the principal and interest of the Guaranteed Obligations;

K. The prospective Borrower has pledged project assets and other collateral or surety, including non project-related assets, as determined by the Secretary to be necessary as assurance for the repayment of the loan;

L. The Loan Guarantee Agreement and related documents include detailed terms and conditions as appropriate to protect the interests of the United States in the case of default, including ensuring availability of all the intellectual property rights, technical data including software, and physical assets necessary for any person selected, including, but not limited to, the Secretary, to complete and operate the defaulting project;

M. The Borrower's interest rate on the guaranteed loan is determined by the Secretary to be reasonable, taking into account the range of interest rates prevailing in the private sector for similar Federal government guaranteed obligations of comparable risk;

N. The guaranteed loan is not subordinate to any loan or other debt obligation for the project not part of the Guaranteed Obligations and is in a first lien position regarding all assets of the project and all collateral security pledged;

O. There is satisfactory evidence that Borrower is willing, competent, and capable of performing the terms and conditions of the loan or other debt obligation and the loan guarantee;

P. The Lender is not a Federal entity, possesses sufficient financial wherewithal and expertise, and will exercise the requisite standard of care as deemed necessary by the Secretary and stated in DOE's lender eligibility criteria in Section VI of these guidelines;

Q. Lender or other parties servicing the loan and monitoring the project should be satisfactory to the Secretary. In addition, the Secretary will need to find that the Lender and other appropriate parties will exercise a high level of care and diligence in the establishment and enforcement of the conditions precedent to all loan disbursements and the Borrower covenants throughout the term of the loan and that each Lender will be required to diligently perform its duties in the servicing and collection of the loan as well as in ensuring that the collateral package securing the loan remains uncompromised. The Lender will also provide annual or more frequent periodic financial reports on the status and condition of

the loan, and is required to promptly notify DOE if it becomes aware of any problems or irregularities concerning the project or the ability of the Borrower to make payment on the loan or other debt obligations. Even though DOE will rely on Lender (or other servicer) to service and monitor the loan with utmost care and expertise, Lender's responsibilities with regard to the loan are separate from DOE's own monitoring and review of the loan and the project;

R. As specified in the Conditional Commitment, the prospective Borrower makes payment of the fee for the Administrative Cost of Issuing a Loan Guarantee pursuant to section 1702(h) of the Act. While covering the other costs included in the Administrative Cost of Issuing a Loan Guarantee, this payment will not include the servicing and monitoring costs identified in Section II.B. of these guidelines. These latter costs will be assessed in accordance with the Loan Guarantee Agreement which will require payment of administrative fees to the Federal government by Borrower, either directly or through the Lender, periodically thereafter for the duration of the loan guarantee. DOE intends to use all of the fees mentioned above to defray administrative expenses associated with issuing and monitoring loan guarantees;

S. If Borrower is to make payment in full for the Subsidy Cost of the loan guarantee pursuant to section 1702(b)(2) of the Act, such payment must be received by the Secretary prior to, or at the time of, closing;

T. DOE representatives have access to the project site at all reasonable times in order to monitor the performance of the project;

U. DOE and Borrower have reached an agreement as to what project information will be made available to DOE and which project information will be made publicly available;

V. The prospective Borrower has filed applications for or obtained any required regulatory approvals for the project and is in compliance with all Federal and state regulatory requirements;

W. Applicant has no delinquent Federal debt, including tax liabilities, unless the delinquency has been resolved with the appropriate Federal agency in accordance with the standards of the Debt Collection Improvement Act of 1996; and

X. The Loan Guarantee Agreement contains such other terms and conditions as the Secretary deems reasonable and necessary to protect the interests of the United States.

VI. Lender Eligibility

A. Lenders associated with a project should meet the following requirements:

The Lender is a “non-Federal qualified institutional buyer,” as defined in 17 CFR 230.144A(a), including qualified retirement plans and governmental plans;

B. The Lender is not a party debarred or suspended from participation in a Federal government contract (under 48 CFR 9.4) or participation in a non-procurement activity (under a set of uniform regulations implemented in agency regulations for numerous agencies, including DOE, at 10 CFR 1036);

C. The Lender is not delinquent on any Federal debt or loan;

- D. The Lender is duly organized and legally authorized to enter into the transaction;
- E. The Lender is able to demonstrate experience in originating and servicing loans for commercial deals similar in size and scope with the project under consideration; and
- F. The Lender is able to demonstrate experience or capability as the lead lender or underwriter of other energy related projects.

VII. Project Costs

- A. In conjunction with the Secretary's determination of the Project Costs associated with the issuance of a loan guarantee, Applicant should record such costs in accordance with generally accepted accounting principles and practices. Applicant should calculate the sum of reasonable and customary costs that it has paid and expects to pay, and which are directly related to the project, to estimate the total sum of Project Costs. Project Costs may include, but are not limited to:
 - 1. Costs of acquisition, lease or rental of real property, including engineering fees, surveys, title insurance, recording fees, and legal fees incurred in connection with land acquisition, lease or rental, site improvements, site restoration, access roads, and fencing;
 - 2. Engineering, architectural, legal and bond fees, and insurance paid in connection with construction of the facility; and materials, labor, services, travel and transportation for facility construction, startup, and tests;
 - 3. Equipment purchase and startup testing;
 - 4. Costs to provide equipment, facilities, and services related to safety

and environmental protection;

5. Financial and legal services costs, including other professional services and fees necessary to obtain required licenses and permits and to prepare environmental reports and data;
6. Interest costs and other normal charges affixed by lenders;
7. Necessary and appropriate insurance and bonds of all types;
8. Costs of startup, commissioning and shakedown;
9. Costs of obtaining licenses to intellectual property necessary to design, construct, and operate the project; and
10. Other necessary and reasonable costs approved by the Secretary.

B. Applicant should not record the following costs as Project Costs associated with the loan guarantee:

1. Fees and commissions charged to Borrower, including finder fees, for obtaining Federal funds;
2. Parent corporation's general and administrative expenses, and non-project related parent corporation assessments, including organizational expenses;
3. Goodwill, franchise, trade, or brand name costs;
4. Dividends and profit sharing to stockholders, employees, and officers;
5. Research, development, and demonstration costs of readying the energy technology for employment in a commercial project;
6. Costs that are excessive or are not directly required to carry out the project, as determined by the Secretary;

7. Administrative Cost of Issuing a Loan Guarantee paid by the Borrower;
8. The Subsidy Cost of the loan guarantee; and
9. Operating expenses incurred after startup, commissioning and shakedown.

VIII. Principal and Interest Assistance Contract

With respect to any Guaranteed Obligation, the Secretary may enter into a contract to pay Holders, for and on behalf of Borrower, from funds appropriated for that purpose, the principal and interest charges that become due and payable on the unpaid balance of the Guaranteed Obligation, if the Secretary finds that:

- A. Borrower is unable to meet the payments and is not in default;
- B. Borrower will, and is financially able to, continue to make the scheduled payments on the remaining portion of the principal and interest due under the non-guaranteed portion of the debt obligation, or an arrangement, approved by the Secretary, has otherwise been agreed to avoid an impending payment default;
- C. It is in the public interest to permit Borrower to continue to pursue the purposes of the project;
- D. In paying the principal and interest, the Federal government expects a probable net benefit greater than it would receive in the event of a default;
- E. The payment authorized is no greater than the amount of principal and interest that Borrower is obligated to pay under the agreement being guaranteed; and
- F. Borrower agrees to reimburse the Secretary for the payment (including interest) on terms and conditions that are satisfactory to the Secretary and executes all written contracts required by the Secretary for such purpose.

IX. Full Faith and Credit

As specified in the Act, the United States pledges its full faith and credit to the payment of all Guaranteed Obligations with respect to principal and interest under the terms and conditions of the Loan Guarantee Agreement.

X. Default/Audit

As required by sections 1702(g)(1)(A) and 1702(i)(1) of the Act, DOE in the near future will issue regulations pertaining to default and audit requirements that will apply to any loan guarantee issued, and Loan Agreement executed, by DOE.