

**Request for Approval under the
“Generic Clearance for the Collection of Routine Customer Feedback” (NCI)
(OMB Control Number: 0925-0642-04, Expiration Date 9/30/2014)**

TITLE OF INFORMATION COLLECTION: Multi-Part Plan for Research and Development of the *Solar Cell* Mobile Application: **Part 5 (Usability Testing)**

PURPOSE:

The overall goal of the study is to design a smart phone application, *Solar Cell*, which uses smart phone technology to aid users in protecting their skin from damaging ultraviolet radiation (UV) in sunlight, a primary cause of skin cancer. NCI purposes to conduct, through a contractor, a multiple-part testing design that includes software usability testing and testing of the concept and mobile application as well as determining predictive algorithms. The results of these analyses will lend themselves to changes and modifications in preparation for the larger, randomized trial (a new, full OMB submission will be forthcoming). The parts may not be conducted one after the other, but may occur simultaneously (**Study Diagram in Attachment 1**).

Part 5: Android Usability Testing

The purpose of Part 5 is to test the Android version of *Solar Cell* for usability in outdoor environments, ensuring that the application will be viewable in sunlight and that features in the *Solar Cell* application are easily usable by the general population. Usability will be conducted in a series of tests with different user groups. Findings will be used to improve the application between usability tests. This approach is called Rapid Iterative Testing and Evaluation (RITE) and is commonly used in application development. Three groups of adults will participate – adults under 40 (who should be more experienced using mobile applications); adults 40 and older (who should be less experienced using mobile applications) and adults with children under age 18 (who should be interested in using the People and Profiles feature to obtain sun protection advice for their children). Results will be used to refine the Android version for the randomized trial (a separate OMB submission) (**Attachments 9 and 10**).

DESCRIPTION OF RESPONDENTS:

Eligibility criteria for respondents to participate will be:

- a) being 18 or older,
- b) being proficient in English, and
- d) consenting to participate,

Exclusion criteria include being unable to read English and being under the age of 18.

Additional eligibility criteria for the:

- Android usability testing participants will be: having a smart phone with Android operating system.

TYPE OF COLLECTION: (Check one) *If you are requesting approval of other instruments under the generic, you must complete a form for each instrument.*

- | | |
|--|---|
| <input type="checkbox"/> Customer Comment Card/Complaint Form | <input type="checkbox"/> Customer Satisfaction Survey |
| <input checked="" type="checkbox"/> Usability Testing (e.g., Website or Software | <input type="checkbox"/> Small Discussion Group |
| <input type="checkbox"/> Focus Group | <input type="checkbox"/> Other: _____ |

CERTIFICATION:

I certify the following to be true:

1. The collection is voluntary.
2. The collection is low-burden for respondents and low-cost for the Federal Government.
3. The collection is non-controversial and does not raise issues of concern to other federal agencies.
4. The results are not intended to be disseminated to the public.
5. Information gathered will not be used for the purpose of substantially informing influential policy decisions.
6. The collection is targeted to the solicitation of opinions from respondents who have experience with the program or may have experience with the program in the future.

Name: Patricia Weber, DrPH - NCI

To assist review, please provide answers to the following question:

Personally Identifiable Information:

1. Is personally identifiable information (PII) collected? Yes No
2. If Yes, will any information that is collected be included in records that are subject to the Privacy Act of 1974? Yes No
3. If Yes, has an up-to-date System of Records Notice (SORN) been published? Yes No

PII is collected in the form of name, phone number, email, age, and race/ethnicity. This information is only used for contact purposes to schedule the meeting time.

Gifts or Payments:

Is an incentive (e.g., money or reimbursement of expenses, token of appreciation) provided to participants? Yes No

The in-person usability testing participants will receive \$40 as an expression of gratitude for their time and input. In the past, participants who have agreed to contribute to in-person usability testing for NCI have received anywhere from \$25-100 for participating, with an average of \$58 (OMB Nos: 0925-0589-01, approved 6/2011, and 0925-0589-03 and 0925-0589-04, both approved in 8/2010). So participants in the study will be receiving below what NCI typically uses as an incentive for participants based on the type of collection and the type of participants.

BURDEN HOURS (for Parts 1-5 of sub-study)

Category of Respondent	Parts	No. of Respondents	Participation Time	Burden Hours
Individuals	SCREENER FOR ALL PARTS	150	5 minutes	13
	PART 1- BETA TESTING	10	60 minutes	10
	PART 2- COGNITIVE INTERVIEWS	5	60 minutes	5
	PART 2- FOCUS GROUP	10	60 minutes	10
	PART 2- MEDICAL PROF. INTERVIEWS	10	60 minutes	10
	PART 2- USABILITY TESTING	10	120 minutes	20
	Totals	195		68

Total Burden Hours used for IC's to date: 47
Total Burden Hours Approved for IC's under 0925-0642: 8750
Total Burden Hours currently requested: 68

FEDERAL COST:

The estimated annual cost to the Federal government is estimated to cost \$4,900 to conduct Parts 1 through 5, as described above.

If you are conducting a focus group, survey, or plan to employ statistical methods, please provide answers to the following questions:

The selection of your targeted respondents

1. Do you have a customer list or something similar that defines the universe of potential respondents and do you have a sampling plan for selecting from this universe?
[] Yes [x] No

If the answer is yes, please provide a description of both below (or attach the sampling plan)? If the answer is no, please provide a description of how you plan to identify your potential group of respondents and how you will select them?

Android usability test participants will be recruited in Colorado through advertisements on Craigslist, campus newsletters at the University of Colorado and contacts with community organizations.

Administration of the Instrument

1. How will you collect the information? (Check all that apply)
[] Web-based or other forms of Social Media
[] Telephone
[x] In-person (USABILITY TESTING)
[] Mail
[] Other, Explain

2. Will interviewers or facilitators be used? [x] Yes [] No

List of instruments, instructions, and scripts submitted with this request:

Part 5: Android Usability Testing

Attachment 9: Consent Form, Procedures, and Recruitment/Advertisement

Attachment 10: Screening Script and Discussion Guide/Questions

Note: Screenshots of the mobile application have not been included because of proprietary-like nature of this information. Should OMB request this, it will sent by email.