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[FR Doc. 2012-16912 Filed 7-10-12; 8:45 am]

BILLING CODE 4163-18-P

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### Centers for Disease Control and Prevention

[60Day-12-12PE]

#### Proposed Data Collections Submitted for Public Comment and Recommendations

In compliance with the requirement of Section 3506(c)(2)(A) of the Paperwork Reduction Act of 1995 for opportunity for public comment on proposed data collection projects, the Centers for Disease Control and Prevention (CDC) will publish periodic summaries of proposed projects. To request more information on the proposed projects or to obtain a copy of the data collection plans and instruments, call 404-639-7570 and send comments to Kimberly S. Lane, at CDC 1600 Clifton Road, MS-D74, Atlanta, GA 30333 or send an email to [omb@cdc.gov](mailto:omb@cdc.gov).

*Comments are invited on:* (a) Whether the proposed collection of information is necessary for the proper performance of the functions of the agency, including whether the information shall have practical utility; (b) the accuracy of the agency's estimate of the burden of the proposed collection of information; (c) ways to enhance the quality, utility, and clarity of the information to be collected; and (d) ways to minimize the burden of the collection of information on respondents, including through the use of automated collection techniques or other forms of information technology. Written comments should be received within 60 days of this notice.

#### Proposed Project

Interventions to Reduce Shoulder MSDs in Overhead Assembly—New National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC).

#### *Background and Brief Description*

The mission of the National Institute for Occupational Safety and Health (NIOSH) is to promote safety and health at work for all people through research and prevention. Under Public Law 91-596, sections 20 and 22 (Section 20-22,

Occupational Safety and Health Act of 1970), NIOSH has the responsibility to conduct research to advance the health and safety of workers. In this capacity, NIOSH proposes to conduct a study to assess the effectiveness and cost-benefit of occupational safety and health (OSH) interventions to prevent musculoskeletal disorders (MSDs) among workers in the Manufacturing (MNF) sector.

Musculoskeletal disorders (MSDs) represent a major proportion of injury/illness incidence and cost in the U.S. Manufacturing (MNF) sector. In 2008, 29% of non-fatal injuries and illnesses involving days away from work (DAW) in the MNF sector involved MSDs and the MNF sector had some of the highest rates of MSD DAW cases. The rate for the motor vehicle manufacturing sub-sector (NAICS 3361) was among the highest of MNF sub sectors, with MSD DAW rates that were higher than the general manufacturing MSD DAW rates from 2003-2007. In automotive manufacturing, overhead conveyance of the vehicle chassis requires assembly line employees to use tools in working postures with the arms elevated. These postures are believed to be associated with symptoms of upper limb discomfort, fatigue, and impingement syndromes (Fischer *et al.*, 2007). Overhead working posture, independent of the force or load exerted with the hands, may play a role in the development in these conditions. However, recent studies suggest a more significant role of localized shoulder muscle fatigue in contributing to these disorders. Fatigue of the shoulder muscles may result in changes in normal shoulder kinematics (motion) that affect risk for shoulder impingement disorders (Ebaugh *et al.*, 2006; Chopp *et al.*, 2010).

The U.S. Manufacturing sector has faced a number of challenges including an overall decline in jobs, an aging workforce, and changes in organizational management systems. Studies have indicated that the average age of industrial workers is increasing and that older workers may differ from younger workers in work capacity, injury risk, severity of injuries, and speed of recovery (Kenny *et al.*, 2008; Gall *et al.*, 2004; Restrepo *et al.*, 2006). As the average age of the industrial population increases and newer systems of work organization (such as lean manufacturing) are changing the nature of labor-intensive work, prevention of MSDs will be more critical to protecting older workers and maintaining productivity.

This study will evaluate the efficacy of two intervention strategies for

reducing musculoskeletal symptoms and pain in the shoulder attributable to overhead assembly work in automotive manufacturing. These interventions are, (1) an articulating spring-tensioned tool support device that unloads from the worker the weight of the tool that would otherwise be manually supported, and, (2) a targeted exercise program intended to increase individual employees' strength and endurance in the shoulder and upper arm stabilizing muscle group. As a primary prevention strategy, the tool support engineering control approach is preferred; however, a cost-efficient opportunity exists to concurrently evaluate the efficacy of a preventive exercise program intervention. Both of these intervention approaches have been used in the Manufacturing sector, and preliminary evidence suggests that both approaches may have merit. However, high quality evidence demonstrating their effectiveness, by way of controlled trials, is lacking.

This project will be conducted as a partnership between NIOSH and Toyota Motors Engineering & Manufacturing North America, Inc. (TEMA), with the intervention evaluation study taking place at the Toyota Motor Manufacturing Kentucky, Inc. (TMMK) manufacturing facility in Georgetown, Kentucky. The prospective intervention evaluation study will be conducted using a group-randomized controlled trial multi-time series design. Four groups of 25-30 employees will be established to test the two intervention treatment conditions (tool support, exercise program), a combined intervention treatment condition, and a control condition. The four groups will be comprised of employees working on two vehicle assembly lines in different parts of the facility, on two work shifts (first and second shift). Individual randomization to treatment condition is not feasible, so a group-randomization (by work unit) will be used to assign the four groups to treatment and control conditions. Observations will be made over the 10-month study period and questionnaires will include the Shoulder Rating Questionnaire (SRQ), Disabilities of the Arm, Shoulder and Hand (DASH) questionnaire, a Standardized Nordic Questionnaire for body part discomfort, and a Work Organization Questionnaire. In addition to the questionnaires a shoulder-specific functional capacity evaluation test battery will be administered at 90 and 210 days, immediately pre- and post-intervention, to confirm the efficacy of the targeted exercise program in improving shoulder capacity.

In summary, this study will evaluate the effectiveness of two interventions to reduce musculoskeletal symptoms and pain in the shoulder associated with repetitive overhead work in the

manufacturing industry and will disseminate the results of evidence-based prevention practices to the greatest audience possible. NIOSH

expects to complete data collection in 2014.

There are no costs to respondents other than their time.

ESTIMATED ANNUALIZED BURDEN HOURS

Respondents	Number of respondents	Number of responses per respondent	Average burden per response (in hours)	Total burden (in hours)
PAR-Q (Physical Activity Readiness) .....	125	1	2/60	4
Shoulder Rating Questionnaire (SRQ) .....	125	10	4/60	83
Disabilities of the Arm Shoulder and Hand (DASH) .....	125	10	6/60	125
Standardized Nordic Questionnaire for Musculoskeletal Symptoms Instrument .....	125	10	4/60	83
Work Org Questionnaire .....	125	3	26/60	163
Total .....				458

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[FR Doc. 2012-16911 Filed 7-10-12; 8:45 am]

BILLING CODE 4163-18-P

**DEPARTMENT OF HEALTH AND HUMAN SERVICES**

**Centers for Disease Control and Prevention**

**Subcommittee on Procedures Review, Advisory Board on Radiation and Worker Health (ABRWH), National Institute for Occupational Safety and Health (NIOSH)**

In accordance with section 10(a)(2) of the Federal Advisory Committee Act (Pub. L. 92-463), the Centers for Disease Control and Prevention (CDC) announces the following meeting of the aforementioned subcommittee:

*Time and Date:*

9 a.m.-5 p.m., Eastern Time, July 31, 2012

*Place:* Cincinnati Airport Marriott, 2395 Progress Drive, Hebron, Kentucky 41018, Telephone: (859) 334-4611, Fax: (859) 334-4619.

*Status:* Open to the public, but without an oral public comment period. To access by conference call dial the following information: 1 (866) 659-0537, Participant Pass Code 9933701.

*Background:* The ABRWH was established under the Energy Employees Occupational Illness Compensation Program Act of 2000 to advise the President on a variety of policy and technical functions required to implement and effectively manage the compensation program. Key functions of the ABRWH include providing advice

on the development of probability of causation guidelines that have been promulgated by the Department of Health and Human Services (HHS) as a final rule; advice on methods of dose reconstruction which have also been promulgated by HHS as a final rule; advice on the scientific validity and quality of dose estimation and reconstruction efforts being performed for purposes of the compensation program; and advice on petitions to add classes of workers to the Special Exposure Cohort (SEC).

In December 2000, the President delegated responsibility for funding, staffing, and operating the ABRWH to HHS, which subsequently delegated this authority to CDC. NIOSH implements this responsibility for CDC. The charter was issued on August 3, 2001, renewed at appropriate intervals, and will expire on August 3, 2013.

*Purpose:* The ABRWH is charged with (a) providing advice to the Secretary, HHS, on the development of guidelines under Executive Order 13179; (b) providing advice to the Secretary, HHS, on the scientific validity and quality of dose reconstruction efforts performed for this program; and (c) upon request by the Secretary, HHS, advising the Secretary on whether there is a class of employees at any Department of Energy facility who were exposed to radiation but for whom it is not feasible to estimate their radiation dose, and on whether there is a reasonable likelihood that such radiation doses may have endangered the health of members of this class. The Subcommittee on Procedures Review was established to aid the ABRWH in carrying out its duty to advise the Secretary, HHS, on dose reconstructions. The Subcommittee on Procedures Review is responsible for overseeing, tracking, and participating

in the reviews of all procedures used in the dose reconstruction process by the NIOSH Division of Compensation Analysis and Support (DCAS) and its dose reconstruction contractor.

*Matters To Be Discussed:* The agenda for the Subcommittee meeting includes discussion of the following Oak Ridge Associated Universities and DCAS procedures: DCAS TIB-0013 (“Selected Geometric Exposure Scenario Considerations for External Dose Reconstruction at Uranium Facilities”), OTIB-0052 (“Parameters to Consider When Processing Claims for Construction Trade Workers”), OTIB-0054 (“Fission and Activation Product Assignment for Internal Dose-Related Gross Beta and Gross Gamma Analyses”), PER 14 (“Construction Trades Workers”), PER 17 (Evaluation of Incomplete internal Dosimetry records from Idaho, Argonne-East and Argonne-West National Laboratories”), and PER 20 (“Blockson TBD Revision”); Identification of Overarching Dose Reconstruction Issues; Discussion of New Summaries of Completed Procedure Reviews; and a continuation of the comment-resolution process for other dose reconstruction procedures under review by the Subcommittee.

The agenda is subject to change as priorities dictate.

This meeting is open to the public, but without an oral public comment period. In the event an individual wishes to provide comments, written comments may be submitted. Any written comments received will be provided at the meeting and should be submitted to the contact person below in advance of the meeting.

*Contact Person for More Information:* Theodore Katz, Designated Federal Officer, NIOSH, CDC, 1600 Clifton Road, Mailstop E-20, Atlanta, Georgia